

WO 00/77040

PCT/US00/16636

	185		190		195
Phe Ala Val Gln	Phe Asp Ser Pro Glu	Trp Glu Arg Thr Pro	Gly		
	200		205		210
Ser Ala Lys Glu	Leu Arg Arg Pro Pro	Pro Arg Ser Pro Gln	Pro		
	215		220		225
Ala Glu Arg Val	Asp Pro Ala Leu Pro	Leu Glu Lys Gln Pro	Trp		
	230		235		240
Phe His Gly Pro	Leu Asn Arg Ala Asp	Ala Glu Ser Leu Leu	Ser		
	245		250		255
Leu Cys Lys Glu	Gly Ser Tyr Leu Val	Arg Leu Ser Glu Thr	Ser		
	260		265		270
Pro Gln Asp Cys	Ser Leu Ser Leu Arg	Ser Ser Gln Gly Phe	Leu		
	275		280		285
His Leu Lys Phe	Ala Arg Thr Arg Glu	Asn Gln Val Val Leu	Gly		
	290		295		300
Gln His Ser Gly	Pro Phe Pro Ser Val	Pro Glu Leu Val Leu	His		
	305		310		315
Tyr Ser Ser Arg	Pro Leu Pro Val Gln	Gly Ala Glu His Leu	Ala		
	320		325		330
Leu Leu Tyr Pro	Val Val Thr Gln Thr	Pro			
	335		340		

<210> 3

<211> 353

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1418671CD1

<400> 3

Met Glu Asp Gly Val	Leu Lys Glu Gly	Phe Leu Val Lys Arg	Gly	
1	5	10	15	
His Ile Val His	Asn Trp Lys Ala Arg	Trp Phe Ile Leu Arg	Gln	
	20	25	30	
Asn Thr Leu Val Tyr	Tyr Lys Leu Glu	Gly Gly Arg Arg Val	Thr	
	35	40	45	
Pro Pro Lys Gly Arg	Ile Leu Leu Asp	Gly Cys Thr Ile Thr	Cys	
	50	55	60	
Pro Cys Leu Glu Tyr	Glu Asn Arg Pro	Leu Leu Ile Lys Leu	Lys	
	65	70	75	
Thr Gln Thr Ser Thr	Glu Tyr Phe Leu	Ala Cys Ser Arg	Glu	
	80	85	90	
Glu Arg Asp Ala Trp	Ala Phe Glu Ile	Thr Gly Ala Ile His	Ala	
	95	100	105	
Gly Gln Pro Gly Lys	Val Gln Gln Leu	His Ser Leu Arg Asn	Ser	
	110	115	120	
Phe Lys Leu Pro Pro	His Ile Ser Leu	His Arg Ile Val Asp	Lys	
	125	130	135	
Met His Asp Ser Asn	Thr Gly Ile Arg	Ser Ser Pro Asn Met	Glu	
	140	145	150	
Gln Gly Ser Thr Tyr	Lys Lys Thr Phe	Leu Gly Ser Ser Leu	Val	
	155	160	165	
Asp Trp Leu Ile Ser	Asn Ser Phe Thr	Ala Ser Arg Leu Glu	Ala	
	170	175	180	
Val Thr Leu Ala Ser	Met Leu Met Glu	Glu Asn Phe Leu Arg	Pro	
	185	190	195	
Val Gly Val Arg Ser	Met Gly Ala Ile	Arg Ser Gly Asp Leu	Ala	
	200	205	210	
Glu Gln Phe Leu Asp	Asp Ser Thr Ala	Leu Tyr Thr Phe Ala	Glu	
	215	220	225	
Ser Tyr Lys Lys Lys	Ile Ser Pro Lys	Glu Glu Ile Ser Leu	Ser	
	230	235	240	
Thr Val Glu Leu Ser	Gly Thr Val Val	Lys Gln Gly Tyr Leu	Ala	
	245	250	255	
Lys Gln Gly His Lys	Arg Lys Asn Trp	Lys Val Arg Arg Phe	Val	
	260	265	270	

WO 00/77040

PCT/US00/16636

Leu	Arg	Lys	Asp	Pro	Ala	Phe	Leu	His	Tyr	Tyr	Asp	Pro	Ser	Lys
				275					280					285
Glu	Glu	Asn	Arg	Pro	Val	Gly	Gly	Phe	Ser	Leu	Arg	Gly	Ser	Leu
				290					295					300
Val	Ser	Ala	Leu	Glu	Asp	Asn	Gly	Val	Pro	Thr	Gly	Val	Lys	Gly
				305					310					315
Asn	Val	Gln	Gly	Asn	Leu	Phe	Lys	Val	Ile	Thr	Lys	Asp	Asp	Thr
				320					325					330
His	Tyr	Tyr	Ile	Gln	Ala	Ser	Ser	Lys	Ala	Glu	Arg	Ala	Glu	Trp
				335					340					345
Ile	Glu	Ala	Ile	Lys	Lys	Leu	Thr							
				350										

<210> 4

<211> 593

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1456841CD1

<400> 4

Met	Ser	Arg	Pro	Ser	Ser	Arg	Ala	Ile	Tyr	Leu	His	Arg	Lys	Glu
1				5					10					15
Tyr	Ser	Gln	Asn	Leu	Thr	Ser	Glu	Pro	Thr	Leu	Leu	Gln	His	Arg
				20					25					30
Val	Glu	His	Leu	Met	Thr	Cys	Lys	Gln	Gly	Ser	Gln	Arg	Val	Gln
				35					40					45
Gly	Pro	Glu	Asp	Ala	Leu	Gln	Lys	Leu	Phe	Glu	Met	Asp	Ala	Gln
				50					55					60
Gly	Arg	Val	Trp	Ser	Gln	Asp	Leu	Ile	Leu	Gln	Val	Arg	Asp	Gly
				65					70					75
Trp	Leu	Gln	Leu	Leu	Asp	Ile	Glu	Thr	Lys	Glu	Glu	Leu	Asp	Ser
				80					85					90
Tyr	Arg	Leu	Asp	Ser	Ile	Gln	Ala	Met	Asn	Val	Ala	Leu	Asn	Thr
				95					100					105
Cys	Ser	Tyr	Asn	Ser	Ile	Leu	Ser	Ile	Thr	Val	Gln	Glu	Pro	Gly
				110					115					120
Leu	Pro	Gly	Thr	Ser	Thr	Leu	Leu	Phe	Gln	Cys	Gln	Glu	Val	Gly
				125					130					135
Ala	Glu	Arg	Leu	Lys	Thr	Ser	Leu	Gln	Lys	Ala	Leu	Glu	Glu	Glu
				140					145					150
Leu	Glu	Gln	Arg	Pro	Arg	Leu	Gly	Gly	Leu	Gln	Pro	Ser	Gln	Asp
				155					160					165
Arg	Trp	Arg	Gly	Pro	Ala	Met	Glu	Arg	Pro	Leu	Pro	Met	Glu	Gln
				170					175					180
Ala	Arg	Tyr	Leu	Glu	Pro	Gly	Ile	Pro	Pro	Glu	Gln	Pro	His	Gln
				185					190					195
Arg	Thr	Leu	Glu	His	Ser	Leu	Pro	Pro	Ser	Pro	Arg	Pro	Leu	Pro
				200					205					210
Arg	His	Thr	Ser	Ala	Arg	Glu	Pro	Ser	Ala	Phe	Thr	Leu	Pro	Pro
				215					220					225
Pro	Arg	Arg	Ser	Ser	Ser	Pro	Glu	Asp	Pro	Glu	Arg	Asp	Glu	Glu
				230					235					240
Val	Leu	Asn	His	Val	Leu	Arg	Asp	Ile	Glu	Leu	Phe	Met	Gly	Lys
				245					250					255
Leu	Glu	Lys	Ala	Gln	Ala	Lys	Thr	Ser	Arg	Lys	Lys	Lys	Phe	Gly
				260					265					270
Lys	Lys	Asn	Lys	Asp	Gln	Gly	Gly	Leu	Thr	Gln	Ala	Gln	Tyr	Ile
				275					280					285
Asp	Cys	Phe	Gln	Lys	Ile	Lys	Tyr	Ser	Phe	Asn	Leu	Leu	Gly	Arg
				290					295					300
Leu	Ala	Thr	Trp	Leu	Lys	Glu	Thr	Ser	Ala	Pro	Glu	Leu	Val	His
				305					310					315
Ile	Leu	Phe	Lys	Ser	Leu	Asn	Phe	Ile	Leu	Ala	Arg	Cys	Pro	Glu
				320					325					330
Ala	Gly	Leu	Ala	Ala	Gln	Val	Ile	Ser	Pro	Leu	Leu	Thr	Pro	Lys

WO 00/77040

PCT/US00/16636

Ala Ile Asn Leu	335	Leu Gln Ser Cys Leu	340	Ser Pro Pro Glu Ser	345
Leu Trp Met Gly	350	Leu Gly Pro Ala Trp	355	Thr Thr Ser Arg Ala	360
Trp Thr Gly Asp	365	Glu Pro Leu Pro Tyr	370	Gln Pro Thr Phe Ser	375
Asp Trp Gln Leu	380	Pro Glu Pro Ser Ser	385	Gln Ala Pro Leu Gly	390
Gln Asp Pro Val	395	Ser Leu Arg Arg Gly	400	Ser His Arg Leu Gly	405
Thr Ser His Phe	410	Pro Gln Glu Lys Thr	415	His Asn His Asp Pro	420
Pro Gly Asp Pro	425	Asn Ser Arg Pro Ser	430	Ser Pro Lys Pro Ala	435
Pro Ala Leu Lys	440	Met Gln Val Leu Tyr	445	Glu Phe Glu Ala Arg	450
Pro Arg Glu Leu	455	Thr Val Val Gln Gly	460	Glu Lys Leu Glu Val	465
Asp His Ser Lys	470	Arg Trp Trp Leu Val	475	Lys Asn Glu Ala Gly	480
Ser Gly Tyr Ile	485	Pro Ser Asn Ile Leu	490	Glu Pro Leu Gln Pro	495
Thr Pro Gly Thr	500	Gln Gly Gln Ser Pro	505	Ser Arg Val Pro Met	510
Arg Leu Ser Ser	515	Arg Pro Glu Glu Val	520	Thr Asp Trp Leu Gln	525
Glu Asn Phe Ser	530	Thr Ala Thr Val Arg	535	Thr Leu Gly Ser Leu	540
Gly Ser Gln Leu	545	Leu Arg Ile Arg Pro	550	Gly Glu Leu Gln Met	555
Cys Pro Gln Glu	560	Ala Pro Arg Ile Leu	565	Ser Arg Leu Glu Ala	570
Arg Arg Met Leu	575	Gly Ile Ser Pro	580		585
	590				

<210> 5

<211> 358

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2020010CD1

<400> 5

Met Ala Gly Pro Gly	1	Pro Thr Phe Pro Leu	10	His Arg Leu Val Trp	15
Ala Asn Arg His Arg	20	Glu Leu Glu Ala Ala	25	Leu His Ser His Gln	30
His Asp Ile Glu Gln	35	Glu Asp Pro Arg Gly	40	Arg Thr Pro Leu Glu	45
Leu Ala Val Ser Leu	50	Gly Asn Leu Glu Ser	55	Val Arg Val Leu Leu	60
Arg His Asn Ala Asn	65	Val Gly Lys Glu Asn	70	Arg Gln Gly Trp Ala	75
Val Leu Gln Glu Ala	80	Val Ser Thr Gly Asp	85	Pro Glu Met Val Gln	90
Leu Val Leu Gln Tyr	95	Arg Asp Tyr Gln Arg	100	Ala Thr Gln Arg Leu	105
Ala Gly Ile Pro Glu	110	Leu Leu Asn Lys Leu	115	Arg Gln Ala Pro Asp	120
Phe Tyr Val Glu Met	125	Lys Trp Glu Phe Thr	130	Ser Trp Val Pro Leu	135
Val Ser Lys Met Cys	140	Pro Ser Asp Val Tyr	145	Arg Val Trp Lys Arg	150
Gly Glu Ser Leu Arg	155	Val Asp Thr Ser Leu	160	Leu Gly Phe Glu His	165

WO 00/77040

PCT/US00/16636

Met	Thr	Trp	Gln	Arg	Gly	Arg	Arg	Ser	Phe	Ile	Phe	Lys	Gly	Gln
				170					175					180
Glu	Ala	Gly	Ala	Leu	Val	Met	Glu	Val	Asp	His	Asp	Arg	Gln	Val
				185					190					195
Val	His	Val	Glu	Thr	Leu	Gly	Leu	Thr	Leu	Gln	Glu	Pro	Glu	Thr
				200					205					210
Leu	Leu	Ala	Ala	Met	Arg	Pro	Ser	Glu	Glu	His	Val	Ala	Ser	Arg
				215					220					225
Leu	Thr	Ser	Pro	Ile	Val	Ser	Thr	His	Leu	Asp	Thr	Arg	Asn	Val
				230					235					240
Ala	Phe	Glu	Arg	Asn	Lys	Cys	Gly	Ile	Trp	Gly	Trp	Arg	Ser	Glu
				245					250					255
Lys	Met	Glu	Thr	Val	Ser	Gly	Tyr	Glu	Ala	Lys	Val	Tyr	Ser	Ala
				260					265					270
Thr	Asn	Val	Glu	Leu	Val	Thr	Arg	Thr	Arg	Thr	Glu	His	Leu	Ser
				275					280					285
Asp	Gln	Asp	Lys	Ser	Arg	Ser	Lys	Ala	Gly	Lys	Thr	Pro	Phe	Gln
				290					295					300
Ser	Phe	Leu	Gly	Met	Ala	Gln	Gln	His	Ser	Ser	His	Thr	Gly	Ala
				305					310					315
Pro	Val	Gln	Gln	Ala	Ala	Ser	Pro	Thr	Asn	Pro	Thr	Ala	Ile	Ser
				320					325					330
Pro	Glu	Glu	Tyr	Phe	Asp	Pro	Asn	Phe	Ser	Leu	Glu	Ser	Arg	Asn
				335					340					345
Ile	Gly	Arg	Pro	Ile	Glu	Met	Ser	Ser	Lys	Val	Gln	Arg		
				350					355					

<210> 6

<211> 749

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2149037CD1

<400> 6

Met	Ser	Gly	Ser	His	Thr	Pro	Ala	Cys	Gly	Pro	Phe	Ser	Ala	Leu
1				5					10					15
Thr	Pro	Ser	Ile	Trp	Pro	Gln	Glu	Ile	Leu	Ala	Lys	Tyr	Thr	Gln
				20					25					30
Lys	Glu	Glu	Ser	Ala	Glu	Gln	Pro	Glu	Phe	Tyr	Tyr	Asp	Glu	Phe
				35					40					45
Gly	Phe	Arg	Val	Tyr	Lys	Glu	Glu	Gly	Asp	Glu	Pro	Gly	Ser	Ser
				50					55					60
Leu	Leu	Ala	Asn	Ser	Pro	Leu	Met	Glu	Asp	Ala	Pro	Gln	Arg	Leu
				65					70					75
Arg	Trp	Gln	Ala	His	Leu	Glu	Phe	Thr	His	Asn	His	Asp	Val	Gly
				80					85					90
Asp	Leu	Thr	Trp	Asp	Lys	Ile	Ala	Val	Ser	Leu	Pro	Arg	Ser	Glu
				95					100					105
Lys	Leu	Arg	Ser	Leu	Val	Leu	Ala	Gly	Ile	Pro	His	Gly	Met	Arg
				110					115					120
Pro	Gln	Leu	Trp	Met	Arg	Leu	Ser	Gly	Ala	Leu	Gln	Lys	Lys	Arg
				125					130					135
Asn	Ser	Glu	Leu	Ser	Tyr	Arg	Glu	Ile	Val	Lys	Asn	Ser	Ser	Asn
				140					145					150
Asp	Glu	Thr	Ile	Ala	Ala	Lys	Gln	Ile	Glu	Lys	Asp	Leu	Leu	Arg
				155					160					165
Thr	Met	Pro	Ser	Asn	Ala	Cys	Phe	Ala	Ser	Met	Gly	Ser	Ile	Gly
				170					175					180
Val	Pro	Arg	Leu	Arg	Arg	Val	Leu	Arg	Ala	Leu	Ala	Trp	Leu	Tyr
				185					190					195
Pro	Glu	Ile	Gly	Tyr	Cys	Gln	Gly	Thr	Gly	Met	Val	Ala	Ala	Cys
				200					205					210
Leu	Leu	Leu	Phe	Leu	Glu	Glu	Glu	Asp	Ala	Phe	Trp	Met	Met	Ser
				215					220					225
Ala	Ile	Ile	Glu	Asp	Leu	Leu	Pro	Ala	Ser	Tyr	Phe	Ser	Thr	Thr

WO 00/77040

PCT/US00/16636

	230		235		240
Leu Leu Gly Val	Gln Thr Asp Gln Arg	Val Leu Arg His Leu	Ile		
	245		250		255
Val Gln Tyr Leu	Pro Arg Leu Asp Lys	Leu Leu Gln Glu His	Asp		
	260		265		270
Ile Glu Leu Ser	Leu Ile Thr Leu His	Trp Phe Leu Thr Ala	Phe		
	275		280		285
Ala Ser Val Val	Asp Ile Lys Leu Leu	Leu Arg Ile Trp Asp	Leu		
	290		295		300
Phe Phe Tyr Glu	Gly Ser Arg Val Leu	Phe Gln Leu Thr Leu	Gly		
	305		310		315
Met Leu His Leu	Lys Glu Glu Glu Leu	Ile Gln Ser Glu Asn	Ser		
	320		325		330
Ala Ser Ile Phe	Asn Thr Leu Ser Asp	Ile Pro Ser Gln Met	Glu		
	335		340		345
Asp Ala Glu Leu	Leu Leu Gly Val Ala	Met Arg Leu Ala Gly	Ser		
	350		355		360
Leu Thr Asp Val	Ala Val Glu Thr Gln	Arg Arg Lys His Leu	Ala		
	365		370		375
Tyr Leu Ile Ala	Asp Gln Gly Gln Leu	Leu Gly Ala Gly Thr	Leu		
	380		385		390
Thr Asn Leu Ser	Gln Val Val Arg Arg	Arg Thr Gln Arg Arg	Lys		
	395		400		405
Ser Thr Ile Thr	Ala Leu Leu Phe Gly	Glu Asp Asp Leu Glu	Ala		
	410		415		420
Leu Lys Ala Lys	Asn Ile Lys Gln Thr	Glu Leu Val Ala Asp	Leu		
	425		430		435
Arg Glu Ala Ile	Leu Arg Val Ala Arg	His Phe Gln Cys Thr	Asp		
	440		445		450
Pro Lys Asn Cys	Ser Val Glu Leu Thr	Pro Asp Tyr Ser Met	Glu		
	455		460		465
Ser His Gln Arg	Asp His Glu Asn Tyr	Val Ala Cys Ser Arg	Ser		
	470		475		480
His Arg Arg Arg	Ala Lys Ala Leu Leu	Asp Phe Glu Arg His	Asp		
	485		490		495
Asp Asp Glu Leu	Gly Phe Arg Lys Asn	Asp Ile Ile Thr Ile	Val		
	500		505		510
Ser Gln Lys Asp	Glu His Cys Trp Val	Gly Glu Leu Asn Gly	Leu		
	515		520		525
Arg Gly Trp Phe	Pro Ala Lys Phe Val	Glu Val Leu Asp Glu	Arg		
	530		535		540
Ser Lys Glu Tyr	Ser Ile Ala Gly Asp	Asp Ser Val Thr Glu	Gly		
	545		550		555
Val Thr Asp Leu	Val Arg Gly Thr Leu	Cys Pro Ala Leu Lys	Ala		
	560		565		570
Leu Phe Glu His	Gly Leu Lys Lys Pro	Ser Leu Leu Gly Gly	Ala		
	575		580		585
Cys His Pro Trp	Leu Phe Ile Glu Glu	Ala Ala Gly Arg Glu	Val		
	590		595		600
Glu Arg Asp Phe	Ala Ser Val Tyr Ser	Arg Leu Val Leu Cys	Lys		
	605		610		615
Thr Phe Arg Leu	Asp Glu Asp Gly Lys	Val Leu Thr Pro Glu	Glu		
	620		625		630
Leu Leu Tyr Arg	Ala Val Gln Ser Val	Asn Val Thr His Asp	Ala		
	635		640		645
Val His Ala Gln	Met Asp Val Lys Leu	Arg Ser Leu Ile Cys	Val		
	650		655		660
Gly Leu Asn Glu	Gln Val Leu His Leu	Trp Leu Glu Val Leu	Cys		
	665		670		675
Ser Ser Leu Pro	Thr Val Glu Lys Trp	Tyr Gln Pro Trp Ser	Phe		
	680		685		690
Leu Arg Ser Pro	Gly Trp Val Gln Ile	Lys Cys Glu Leu Arg	Val		
	695		700		705
Leu Cys Cys Phe	Ala Phe Ser Leu Ser	Gln Asp Trp Glu Leu	Pro		
	710		715		720
Ala Lys Arg Glu	Ala Gln Gln Pro Leu	Lys Glu Gly Val Arg	Asp		
	725		730		735

WO 00/77040

PCT/US00/16636

Met Leu Val Lys His His Leu Phe Ser Trp Asp Val Asp Gly
 740 745

<210> 7
 <211> 139
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2162179CD1

<400> 7
 Met Ala Asp Glu Lys Asp Arg Glu Glu Ile Ile Val Ala Glu Phe
 1 5 10 15
 His Lys Lys Ile Lys Glu Ala Phe Glu Val Phe Asp His Glu Ser
 20 25 30
 Asn Asn Thr Val Asp Val Arg Glu Ile Gly Thr Ile Ile Arg Ser
 35 40 45
 Leu Gly Cys Cys Pro Thr Glu Gly Glu Leu His Asp Leu Ile Ala
 50 55 60
 Glu Val Glu Glu Glu Glu Pro Thr Gly Tyr Ile Arg Phe Glu Lys
 65 70 75
 Phe Leu Pro Val Met Thr Glu Ile Leu Leu Glu Arg Lys Tyr Arg
 80 85 90
 Pro Ile Pro Glu Asp Val Leu Leu Arg Ala Phe Glu Val Leu Asp
 95 100 105
 Ser Ala Lys Arg Gly Phe Leu Thr Lys Asp Glu Leu Ile Lys Tyr
 110 115 120
 Met Thr Glu Glu Gly Lys Cys Asp Leu Leu Leu Ile Thr Met Thr
 125 130 135
 Tyr Val Arg Asn

<210> 8
 <211> 539
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2244706CD1

<400> 8
 Met Val Gly Lys Pro Val His Lys Gly Ser Glu Ser Pro Asn Ser
 1 5 10 15
 Phe Leu Asp Gln Glu Tyr Arg Lys Arg Phe Asn Ile Val Glu Glu
 20 25 30
 Asp Thr Val Leu Tyr Cys Tyr Glu Tyr Glu Lys Gly Arg Ser Ser
 35 40 45
 Ser Gln Gly Arg Arg Glu Ser Thr Pro Thr Tyr Gly Lys Leu Arg
 50 55 60
 Pro Ile Ser Met Pro Val Glu Tyr Asn Trp Val Gly Asp Tyr Glu
 65 70 75
 Asp Pro Asn Lys Met Lys Arg Asp Ser Arg Arg Glu Asn Ser Leu
 80 85 90
 Leu Arg Tyr Met Ser Asn Glu Lys Ile Ala Gln Glu Glu Tyr Met
 95 100 105
 Phe Gln Arg Asn Ser Lys Lys Asp Thr Gly Lys Lys Ser Lys Lys
 110 115 120
 Lys Gly Asp Lys Ser Asn Ser Pro Thr His Tyr Ser Leu Leu Pro
 125 130 135
 Ser Leu Gln Met Asp Ala Leu Arg Gln Asp Ile Met Gly Thr Pro
 140 145 150
 Val Pro Glu Thr Thr Leu Tyr His Thr Phe Gln Gln Ser Ser Leu
 155 160 165
 Gln His Lys Ser Lys Lys Lys Asn Lys Gly Pro Ile Ala Gly Lys
 170 175 180
 Ser Lys Arg Arg Ile Ser Cys Lys Asp Leu Gly Arg Gly Asp Cys

WO 00/77040

PCT/US00/16636

Glu Gly Trp Leu	185	Trp Lys Lys Lys Asp	190	Ala Lys Ser Tyr Phe	195
	200		205		210
Gln Lys Trp Lys	215	Lys Tyr Trp Phe Val	220	Leu Lys Asp Ala Ser	225
	230		235		240
Tyr Trp Tyr Ile	245	Asn Glu Glu Asp Glu	250	Lys Ala Glu Gly Phe	255
	260		265		270
Ser Leu Pro Glu	275	Phe Lys Ile Asp Arg	280	Ala Ser Glu Cys Arg	285
	290		295		300
Lys Tyr Ala Phe	305	Lys Ala Cys His Pro	310	Lys Ile Lys Ser Phe	315
	320		325		330
Phe Ala Ala Glu	335	His Leu Asp Asp Met	340	Asn Arg Trp Leu Asn	345
	350		355		360
Ile Asn Met Leu	365	Thr Ala Gly Tyr Ala	370	Glu Arg Glu Arg Ile	375
	380		385		390
Gln Glu Gln Asp	395	Tyr Trp Ser Glu Ser	400	Asp Lys Glu Glu Ala	405
	410		415		420
Thr Pro Ser Thr	425	Pro Lys Gln Asp Ser	430	Pro Pro Pro Tyr	435
	440		445		450
Thr Tyr Pro Arg	455	Pro Pro Ser Met Ser	460	Cys Ala Ser Pro Tyr	465
	470		475		480
Glu Ala Lys His	485	Ser Arg Leu Ser Ser	490	Thr Glu Thr Ser Gln	495
	500		505		510
Gln Ser Ser His	515	Glu Glu Phe Arg Gln	520	Glu Val Thr Gly Ser	525
	530		535		
Ala Val Ser Pro		Ile Arg Lys Thr Ala		Ser Gln Arg Arg Ser	
Gln Asp Leu Ile		Glu Thr Pro Leu Thr		Ser Ser Gly Leu His	
Leu Gln Thr Leu		Pro Leu Glu Asp Ser		Val Phe Ser Asp Ser	
Ala Ile Ser Pro		Glu His Arg Arg Gln		Ser Thr Leu Pro Thr	
Lys Cys His Leu		Gln Asp His Tyr Gly		Pro Tyr Pro Leu Ala	
Ser Glu Met Met		Gln Val Leu Asn Gly		Asn Gly Gly Lys Pro	
Arg Phe Thr Leu		Pro Arg Asp Ser Gly		Phe Asn His Cys Cys	
Asn Ala Pro Val		Ser Ala Cys Asp Pro		Gln Asp Asp Val Gln	
Pro Glu Val Glu		Glu Glu Glu Asp Asp		Glu Glu Glu Ala Trp	
Ala Ala Gly Gly		Asn Met Gly Glu Lys		Ser Leu Phe Thr Ala	
Val Gly Arg Pro		Phe Met Gln Asn Gly		Ser Thr Leu Trp His	

<210> 9

<211> 319

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2316805CD1

<400> 9

Met Asp Pro Gln	Asn Gln His Gly Ser	Gly Ser Ser Leu Val	Val
1	5	10	15
Ile Gln Gln Pro	Ser Leu Asp Ser Arg	Gln Arg Leu Asp Tyr	Glu
	20	25	30
Arg Glu Ile Gln	Pro Thr Ala Ile Leu	Ser Leu Asp Gln Ile	Lys
	35	40	45
Ala Ile Arg Gly	Ser Asn Glu Tyr Thr	Glu Gly Pro Ser Val	Val
	50	55	60
Lys Arg Pro Ala	Pro Arg Thr Ala Pro	Arg Gln Glu Lys His	Glu
	65	70	75

WO 00/77040

PCT/US00/16636

Arg	Thr	His	Glu	Ile	Ile	Pro	Ile	Asn	Val	Asn	Asn	Asn	Tyr	Glu
				80					85					90
His	Arg	His	Thr	Ser	His	Leu	Gly	His	Ala	Val	Leu	Pro	Ser	Asn
				95					100					105
Ala	Arg	Gly	Pro	Ile	Leu	Ser	Arg	Ser	Thr	Ser	Thr	Gly	Ser	Ala
				110					115					120
Ala	Ser	Ser	Gly	Ser	Asn	Ser	Ser	Ala	Ser	Ser	Glu	Gln	Gly	Leu
				125					130					135
Leu	Gly	Arg	Ser	Pro	Pro	Thr	Arg	Pro	Val	Pro	Gly	His	Arg	Ser
				140					145					150
Glu	Arg	Ala	Ile	Arg	Thr	Gln	Pro	Lys	Gln	Leu	Ile	Val	Asp	Asp
				155					160					165
Leu	Lys	Gly	Ser	Leu	Lys	Glu	Asp	Leu	Thr	Gln	His	Lys	Phe	Ile
				170					175					180
Cys	Glu	Gln	Cys	Gly	Lys	Cys	Lys	Cys	Gly	Glu	Cys	Thr	Ala	Pro
				185					190					195
Arg	Thr	Leu	Pro	Ser	Cys	Leu	Ala	Cys	Asn	Arg	Gln	Cys	Leu	Cys
				200					205					210
Ser	Ala	Glu	Ser	Met	Val	Glu	Tyr	Gly	Thr	Cys	Met	Cys	Leu	Val
				215					220					225
Lys	Gly	Ile	Phe	Tyr	His	Cys	Ser	Asn	Asp	Asp	Glu	Gly	Asp	Ser
				230					235					240
Tyr	Ser	Asp	Asn	Pro	Cys	Ser	Cys	Ser	Gln	Ser	His	Cys	Cys	Ser
				245					250					255
Arg	Tyr	Leu	Cys	Met	Gly	Ala	Met	Ser	Leu	Phe	Leu	Pro	Cys	Leu
				260					265					270
Leu	Cys	Tyr	Pro	Pro	Ala	Lys	Gly	Cys	Leu	Lys	Leu	Cys	Arg	Arg
				275					280					285
Cys	Tyr	Asp	Trp	Ile	His	Arg	Pro	Gly	Cys	Arg	Cys	Lys	Asn	Ser
				290					295					300
Asn	Thr	Val	Tyr	Cys	Lys	Leu	Glu	Ser	Cys	Pro	Ser	Arg	Gly	Gln
				305					310					315

Gly Lys Pro Ser

<210> 10

<211> 747

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2320010CD1

<400> 10

Met	Gly	Lys	Arg	Asn	Ile	Ala	Arg	Val	His	Asp	Ala	Trp	Leu	Ser
1				5					10					15
Lys	His	Phe	Gly	Ile	Asp	Arg	Lys	Ser	Gln	Thr	Met	Pro	Ala	Leu
				20					25					30
Arg	Asn	Arg	Ser	Gly	Val	Met	Gln	Ala	Arg	Leu	Gln	His	Leu	Ser
				35					40					45
Ser	Leu	Glu	Ser	Ser	Phe	Thr	Leu	Asn	His	Ser	Ser	Thr	Thr	Thr
				50					55					60
Glu	Ala	Asp	Ile	Phe	His	Gln	Ala	Leu	Leu	Ala	Ala	Asn	Thr	Ala
				65					70					75
Thr	Glu	Val	Ser	Leu	Thr	Val	Leu	Asp	Thr	Ile	Ser	Phe	Phe	Thr
				80					85					90
Gln	Cys	Phe	Lys	Thr	Gln	Leu	Leu	Asn	Asn	Asp	Gly	His	Asn	Pro
				95					100					105
Leu	Met	Lys	Lys	Val	Phe	Asp	Ile	His	Leu	Ala	Phe	Leu	Lys	Asn
				110					115					120
Gly	Gln	Ser	Glu	Val	Ser	Leu	Lys	His	Val	Phe	Ala	Ser	Leu	Arg
				125					130					135
Ala	Phe	Ile	Ser	Lys	Phe	Pro	Ser	Ala	Phe	Phe	Lys	Gly	Arg	Val
				140					145					150
Asn	Met	Cys	Ala	Ala	Phe	Cys	Tyr	Glu	Val	Leu	Lys	Cys	Cys	Thr
				155					160					165
Ser	Lys	Ile	Ser	Ser	Thr	Arg	Asn	Glu	Ala	Ser	Ala	Leu	Leu	Tyr

WO 00/77040

PCT/US00/16636

Leu	Leu	Met	Arg	170	Asn	Phe	Glu	Tyr	175	Thr	Lys	Arg	Lys	Thr	180	Phe
				185					190						195	
Leu	Arg	Thr	His	200	Leu	Gln	Ile	Ile	205	Ala	Val	Ser	Gln	Leu	210	Ile
				215					220						225	
Ala	Asp	Val	Ala	230	Leu	Ser	Gly	Gly	235	Arg	Phe	Gln	Glu	Ser	240	Leu
				245					250						255	
Phe	Ile	Ile	Asn	260	Asn	Phe	Ala	Asn	265	Asp	Arg	Pro	Met	Lys	270	Ala
				275					280						285	
Thr	Ala	Phe	Pro	290	Ala	Glu	Val	Lys	295	Leu	Thr	Lys	Arg	Ile	300	Arg
				305					310						315	
Thr	Val	Leu	Met	320	Ala	Thr	Ala	Gln	325	Lys	Glu	His	Glu	Lys	330	Asp
				335					340						345	
Pro	Glu	Met	Leu	350	Ile	Asp	Leu	Gln	355	Ser	Leu	Ala	Lys	Ser	360	Tyr
				365					370						375	
Ala	Ser	Thr	Pro	380	Glu	Leu	Arg	Lys	385	Trp	Leu	Asp	Ser	Met	390	Ala
				395					400						405	
Lys	Ile	His	Val	410	Lys	Asn	Gly	Asp	415	Ser	Glu	Ala	Ala	Met	420	Cys
				425					430						435	
Tyr	Val	His	Val	440	Ala	Ala	Leu	Val	445	Glu	Phe	Leu	His	Arg	450	Lys
				455					460						465	
Lys	Leu	Phe	Pro	470	Asn	Gly	Cys	Ser	475	Phe	Lys	Lys	Ile	Thr	480	Pro
				485					490						495	
Asn	Ile	Asp	Glu	500	Glu	Gly	Ala	Met	505	Glu	Asp	Ala	Gly	Met	510	Met
				515					520						525	
Asp	Val	His	Tyr	530	Ser	Glu	Glu	Val	535	Leu	Glu	Leu	Leu	Glu	540	Gln
				545					550						555	
Cys	Val	Asp	Gly	560	Leu	Trp	Lys	Ala	565	Arg	Tyr	Glu	Ile	Ile	570	Ser
				575					580						585	
Glu	Ile	Ser	Lys	590	Leu	Ile	Val	Pro	595	Tyr	Glu	Lys	Arg	Arg	600	Glu
				605					610						615	
Phe	Glu	Lys	Leu	620	Thr	Gln	Val	Tyr	625	Thr	Leu	His	Gly	Ala	630	Tyr
				635					640						645	
Thr	Lys	Ile	Leu	650	Glu	Val	Met	His	655	Lys	Lys	Arg	Leu	Leu	660	Gly
				665					670						675	
Thr	Phe	Phe	Arg	680	Val	Ala	Phe	Tyr	685	Gln	Ser	Phe	Phe	Glu	690	Glu
				695					700						705	
Glu	Asp	Gly	Lys	710	Glu	Tyr	Ile	Tyr	715	Glu	Pro	Lys	Leu	Thr	720	Gly
				725					730						735	
Leu	Ser	Glu	Ile	740	Ser	Leu	Arg	Leu	745	Leu	Leu	Tyr	Gly	Glu	750	Lys
				755					760						765	
Phe	Gly	Thr	Glu	770	Asn	Val	Lys	Ile	775	Gln	Asp	Ser	Asp	Lys	780	Val
				785					790						795	
Asn	Ala	Lys	Glu	800	Leu	Asp	Pro	Lys	805	Ala	His	Ile	Gln	Val	810	Thr
				815					820						825	
Tyr	Val	Lys	Pro	830	Tyr	Phe	Asp	Asp	835	Glu	Leu	Thr	Glu	Arg	840	Lys
				845					850						855	
Thr	Glu	Phe	Glu	860	Arg	Asn	His	Asn	865	Ser	Arg	Phe	Val	Phe	870	Glu
				875					880						885	
Ala	Pro	Tyr	Thr	890	Leu	Ser	Gly	Lys	895	Gln	Gly	Cys	Ile	Glu	900	Glu
				905					910						915	
Gln	Cys	Lys	Arg	920	Arg	Thr	Ile	Leu	925	Thr	Ser	Asn	Ser	Phe	930	Pro
				935					940						945	
Tyr	Val	Lys	Lys	950	Arg	Ile	Pro	Ile	955	Cys	Glu	Gln	Gln	Ile	960	Asn
				965					970						975	
Leu	Lys	Pro	Ile	980	Asp	Val	Ala	Thr	985	Glu	Ile	Lys	Asp	Lys	990	Thr
				995					1000						1005	
Ala	Glu	Leu	Gln	1010	Lys	Leu	Cys	Ser	1015	Thr	Asp	Val	Asp	Met	1020	Ile
				1025					1030						1035	
Gln	Leu	Gln	Leu	1040	Lys	Leu	Gln	Gly	1045	Val	Ser	Val	Gln	Val	1050	Asn
				1055					1060						1065	
Ala	Gly	Pro	Leu	1070	Ala	Tyr	Ala	Arg	1075	Phe	Leu	Asn	Asp	Ser	1080	Gln
				1085					1090						1095	
Ala	Ser	Lys	Tyr	1100	Pro	Lys	Lys	Val	1105	Ser	Glu	Leu	Lys	Asp	1110	Met
				1115					1120						1125	
Phe	Arg	Lys	Phe	1130	Ile	Gln	Ala	Cys	1135	Ile	Ala	Leu	Glu	Leu	1140	Asn
				1145					1150						1155	

WO 00/77040

PCT/US00/16636

Glu	Arg	Leu	Ile	Lys	Glu	Asp	Gln	Val	Glu	Tyr	His	Glu	Gly	Leu
				680					685					690
Lys	Ser	Asn	Phe	Arg	Asp	Met	Val	Lys	Glu	Leu	Ser	Asp	Ile	Ile
				695					700					705
His	Glu	Gln	Ile	Leu	Gln	Glu	Asp	Thr	Met	His	Ser	Pro	Trp	Met
				710					715					720
Ser	Asn	Thr	Leu	His	Val	Phe	Cys	Ala	Ile	Ser	Gly	Thr	Ser	Ser
				725					730					735
Asp	Arg	Gly	Tyr	Gly	Ser	Pro	Arg	Tyr	Ala	Glu	Val			
				740					745					

<210> 11

<211> 266

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2564901CD1

<400> 11

Met	Gln	Gly	Ser	Thr	Arg	Arg	Met	Gly	Val	Met	Thr	Asp	Val	His
1				5					10					15
Arg	Arg	Phe	Leu	Gln	Leu	Leu	Met	Thr	His	Gly	Val	Leu	Glu	Glu
				20					25					30
Trp	Asp	Val	Lys	Arg	Leu	Gln	Thr	His	Cys	Tyr	Lys	Val	His	Asp
				35					40					45
Arg	Asn	Ala	Thr	Val	Asp	Lys	Leu	Glu	Asp	Phe	Ile	Asn	Asn	Ile
				50					55					60
Asn	Ser	Val	Leu	Glu	Ser	Leu	Tyr	Ile	Glu	Ile	Lys	Arg	Gly	Val
				65					70					75
Thr	Glu	Asp	Asp	Gly	Arg	Pro	Ile	Tyr	Ala	Leu	Val	Asn	Leu	Ala
				80					85					90
Thr	Thr	Ser	Ile	Ser	Lys	Met	Ala	Thr	Asp	Phe	Ala	Glu	Asn	Glu
				95					100					105
Leu	Asp	Leu	Phe	Arg	Lys	Ala	Leu	Glu	Leu	Ile	Ile	Asp	Ser	Glu
				110					115					120
Thr	Gly	Phe	Ala	Ser	Ser	Thr	Asn	Ile	Leu	Asn	Leu	Val	Asp	Gln
				125					130					135
Leu	Lys	Gly	Lys	Lys	Met	Arg	Lys	Lys	Glu	Ala	Glu	Gln	Val	Leu
				140					145					150
Gln	Lys	Phe	Val	Gln	Asn	Lys	Trp	Leu	Ile	Glu	Lys	Glu	Gly	Glu
				155					160					165
Phe	Thr	Leu	His	Gly	Arg	Ala	Ile	Leu	Glu	Met	Glu	Gln	Tyr	Ile
				170					175					180
Arg	Glu	Thr	Tyr	Pro	Asp	Ala	Val	Lys	Ile	Cys	Asn	Ile	Cys	His
				185					190					195
Ser	Leu	Leu	Ile	Gln	Gly	Gln	Ser	Cys	Glu	Thr	Cys	Gly	Ile	Arg
				200					205					210
Met	His	Leu	Pro	Cys	Val	Ala	Lys	Tyr	Phe	Gln	Ser	Asn	Ala	Glu
				215					220					225
Pro	Arg	Cys	Pro	His	Cys	Asn	Asp	Tyr	Trp	Pro	His	Glu	Ile	Pro
				230					235					240
Lys	Val	Phe	Asp	Pro	Glu	Lys	Glu	Arg	Glu	Ser	Gly	Val	Leu	Lys
				245					250					255
Ser	Asn	Lys	Lys	Ser	Leu	Arg	Ser	Arg	Gln	His				
				260					265					

<210> 12

<211> 345

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2615168CD1

<400> 12

Met Ser Val Thr Gly Gly Lys Met Ala Pro Ser Leu Thr Gln Glu

WO 00/77040

PCT/US00/16636

1	5	10	15
Ile Leu Ser His Leu	Gly Leu Ala Ser Lys	Thr Ala Ala Trp Gly	
20	25	30	
Thr Leu Gly Thr Leu	Arg Thr Phe Leu Asn	Phe Ser Val Asp Lys	
35	40	45	
Asp Ala Gln Arg Leu	Arg Ala Ile Thr	Gly Gln Gly Val Asp	
50	55	60	
Arg Ser Ala Ile Val	Asp Val Leu Thr Asn	Arg Ser Arg Glu Gln	
65	70	75	
Arg Gln Leu Ile Ser	Arg Asn Phe Gln Glu	Arg Thr Gln Gln Asp	
80	85	90	
Leu Met Lys Ser Leu	Gln Ala Ala Leu Ser	Gly Asn Leu Glu Arg	
95	100	105	
Ile Val Met Ala Leu	Leu Gln Pro Thr Ala	Gln Phe Asp Ala Gln	
110	115	120	
Glu Leu Arg Thr Ala	Leu Lys Ala Ser Asp	Ser Ala Val Asp Val	
125	130	135	
Ala Ile Glu Ile Leu	Ala Thr Arg Thr Pro	Pro Gln Leu Gln Glu	
140	145	150	
Cys Leu Ala Val Tyr	Lys His Asn Phe Gln	Val Glu Ala Val Asp	
155	160	165	
Asp Ile Thr Ser Glu	Thr Ser Gly Ile Leu	Gln Asp Leu Leu Leu	
170	175	180	
Ala Leu Ala Lys Gly	Arg Asp Ser Tyr Ser	Gly Ile Ile Asp	
185	190	195	
Tyr Asn Leu Ala Glu	Gln Asp Val Gln Ala	Leu Gln Arg Ala Glu	
200	205	210	
Gly Pro Ser Arg Glu	Thr Trp Val Pro Val	Phe Thr Gln Arg	
215	220	225	
Asn Pro Glu His Leu	Ile Arg Val Phe Asp	Gln Tyr Gln Arg Ser	
230	235	240	
Thr Gly Gln Glu Leu	Glu Glu Ala Val Gln	Asn Arg Phe His Gly	
245	250	255	
Asp Ala Gln Val Ala	Leu Leu Gly Leu Ala	Ser Val Ile Lys Asn	
260	265	270	
Thr Pro Leu Tyr Phe	Ala Asp Lys Leu His	Gln Ala Leu Gln Glu	
275	280	285	
Thr Glu Pro Asn Tyr	Gln Val Leu Ile Arg	Ile Leu Ile Ser Arg	
290	295	300	
Cys Glu Thr Asp Leu	Leu Ser Ile Arg Ala	Glu Phe Arg Lys Lys	
305	310	315	
Phe Gly Lys Ser Leu	Tyr Ser Ser Leu Gln	Asp Ala Val Lys Gly	
320	325	330	
Asp Cys Gln Ser Ala	Leu Leu Ala Leu Cys	Arg Ala Glu Asp Met	
335	340	345	

<210> 13

<211> 437

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2658329CD1

<400> 13

Met Glu Lys Glu Leu	Arg Ser Thr Ile Leu	Phe Asn Ala Tyr Lys
1	5	10
Lys Glu Ile Phe Thr	Thr Asn Asn Gly Tyr	Lys Ser Met Gln Lys
20	25	30
Lys Leu Arg Ser Asn	Trp Lys Ile Gln Ser	Leu Lys Asp Glu Ile
35	40	45
Thr Ser Glu Lys Leu	Asn Gly Val Lys Leu	Trp Ile Thr Ala Gly
50	55	60
Pro Arg Glu Lys Phe	Thr Ala Ala Glu Phe	Glu Ile Leu Lys Lys
65	70	75
Tyr Leu Asp Thr Gly	Gly Asp Val Phe Val	Met Leu Gly Glu Gly

WO 00/77040

PCT/US00/16636

	80		85		90									
Gly	Glu	Ser	Arg	Phe	Asp	Thr	Asn	Ile	Asn	Phe	Leu	Leu	Glu	Glu
	95								100					105
Tyr	Gly	Ile	Met	Val	Asn	Asn	Asp	Ala	Val	Val	Arg	Asn	Val	Tyr
	110								115					120
His	Lys	Tyr	Phe	His	Pro	Lys	Glu	Ala	Leu	Val	Ser	Ser	Gly	Val
	125								130					135
Leu	Asn	Arg	Glu	Ile	Ser	Arg	Ala	Ala	Gly	Lys	Ala	Val	Pro	Gly
	140								145					150
Ile	Ile	Asp	Glu	Glu	Ser	Ser	Gly	Asn	Asn	Ala	Gln	Ala	Leu	Thr
	155								160					165
Phe	Val	Tyr	Pro	Phe	Gly	Ala	Thr	Leu	Ser	Val	Met	Lys	Pro	Ala
	170								175					180
Val	Ala	Val	Leu	Ser	Thr	Gly	Ser	Val	Cys	Phe	Pro	Leu	Asn	Arg
	185								190					195
Pro	Ile	Leu	Ala	Phe	Tyr	His	Ser	Lys	Asn	Gln	Gly	Gly	Lys	Leu
	200								205					210
Ala	Val	Leu	Gly	Ser	Cys	His	Met	Phe	Ser	Asp	Gln	Tyr	Leu	Asp
	215								220					225
Lys	Glu	Glu	Asn	Ser	Lys	Ile	Met	Asp	Val	Val	Phe	Gln	Trp	Leu
	230								235					240
Thr	Thr	Gly	Asp	Ile	His	Leu	Asn	Gln	Ile	Asp	Ala	Glu	Asp	Pro
	245								250					255
Glu	Ile	Ser	Asp	Tyr	Met	Met	Leu	Pro	Tyr	Thr	Ala	Thr	Leu	Ser
	260								265					270
Lys	Arg	Asn	Arg	Glu	Cys	Leu	Gln	Glu	Ser	Asp	Glu	Ile	Pro	Arg
	275								280					285
Asp	Phe	Thr	Thr	Leu	Phe	Asp	Leu	Ser	Ile	Phe	Gln	Leu	Asp	Thr
	290								295					300
Thr	Ser	Phe	His	Ser	Val	Ile	Glu	Ala	His	Glu	Gln	Leu	Asn	Val
	305								310					315
Lys	His	Glu	Pro	Leu	Gln	Leu	Ile	Gln	Pro	Gln	Phe	Glu	Thr	Pro
	320								325					330
Leu	Pro	Thr	Leu	Gln	Pro	Ala	Val	Phe	Pro	Pro	Ser	Phe	Arg	Glu
	335								340					345
Leu	Pro	Pro	Pro	Pro	Leu	Glu	Leu	Phe	Asp	Leu	Asp	Glu	Thr	Phe
	350								355					360
Ser	Ser	Glu	Lys	Ala	Arg	Leu	Ala	Gln	Ile	Thr	Asn	Lys	Cys	Thr
	365								370					375
Glu	Glu	Asp	Leu	Glu	Phe	Tyr	Val	Arg	Lys	Cys	Gly	Asp	Ile	Leu
	380								385					390
Gly	Val	Thr	Ser	Lys	Leu	Pro	Lys	Asp	Gln	Gln	Asp	Ala	Lys	His
	395								400					405
Ile	Leu	Glu	His	Val	Phe	Phe	Gln	Val	Val	Glu	Phe	Lys	Lys	Leu
	410								415					420
Asn	Gln	Glu	His	Asp	Ile	Asp	Thr	Ser	Glu	Thr	Ala	Phe	Gln	Asn
	425								430					435
Asn	Phe													

<210> 14

<211> 441

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2708944CD1

<400> 14

Met	Val	His	Ile	Lys	Lys	Gly	Glu	Leu	Thr	Gln	Glu	Glu	Lys	Glu
1				5					10					15
Leu	Leu	Glu	Val	Ile	Gly	Lys	Gly	Thr	Val	Gln	Glu	Ala	Gly	Thr
				20					25					30
Leu	Leu	Ser	Ser	Lys	Asn	Val	Arg	Val	Asn	Cys	Leu	Asp	Glu	Asn
				35					40					45
Gly	Met	Thr	Pro	Leu	Met	His	Ala	Ala	Tyr	Lys	Gly	Lys	Leu	Asp
				50					55					60

WO 00/77040

PCT/US00/16636

```

Met Cys Lys Leu Leu Leu Arg His Gly Ala Asp Val Asn Cys His
      65      70      75
Gln His Glu His Gly Tyr Thr Ala Leu Met Phe Ala Ala Leu Ser
      80      85      90
Gly Asn Lys Asp Ile Thr Trp Val Met Leu Glu Ala Gly Ala Glu
      95     100     105
Thr Asp Val Val Asn Ser Val Gly Arg Thr Ala Ala Gln Met Ala
     110     115     120
Ala Phe Val Gly Gln His Asp Cys Val Thr Ile Ile Asn Asn Phe
     125     130     135
Phe Pro Arg Glu Arg Leu Asp Tyr Tyr Thr Lys Pro Gln Gly Leu
     140     145     150
Asp Lys Glu Pro Lys Leu Pro Pro Lys Leu Ala Gly Pro Leu His
     155     160     165
Lys Ile Ile Thr Thr Thr Asn Leu His Pro Val Lys Ile Val Met
     170     175     180
Leu Val Asn Glu Asn Pro Leu Leu Thr Glu Ala Ala Leu Asn
     185     190     195
Lys Cys Tyr Arg Val Met Asp Leu Ile Cys Glu Lys Cys Met Lys
     200     205     210
Gln Arg Asp Met Asn Glu Val Leu Ala Met Lys Met His Tyr Ile
     215     220     225
Ser Cys Ile Phe Gln Lys Cys Ile Asn Phe Leu Lys Asp Gly Glu
     230     235     240
Asn Lys Leu Asp Thr Leu Ile Lys Ser Leu Leu Lys Gly Arg Ala
     245     250     255
Ser Asp Gly Phe Pro Val Tyr Gln Glu Lys Ile Ile Arg Glu Ser
     260     265     270
Ile Arg Lys Phe Pro Tyr Cys Glu Ala Thr Leu Leu Gln Gln Leu
     275     280     285
Val Arg Ser Ile Ala Pro Val Glu Ile Gly Ser Asp Pro Thr Ala
     290     295     300
Phe Ser Val Leu Thr Gln Ala Ile Thr Gly Gln Val Gly Phe Val
     305     310     315
Asp Val Glu Phe Cys Thr Thr Cys Gly Glu Lys Gly Ala Ser Lys
     320     325     330
Arg Cys Ser Val Cys Lys Met Val Ile Tyr Cys Asp Gln Thr Cys
     335     340     345
Gln Lys Thr His Trp Phe Thr His Lys Lys Ile Cys Lys Asn Leu
     350     355     360
Lys Asp Ile Tyr Glu Lys Gln Gln Leu Glu Ala Ala Lys Glu Lys
     365     370     375
Arg Gln Glu Glu Asn His Gly Lys Leu Asp Val Asn Ser Asn Cys
     380     385     390
Val Asn Glu Glu Gln Pro Glu Ala Glu Val Gly Ile Ser Gln Lys
     395     400     405
Asp Ser Asn Pro Glu Asp Ser Gly Glu Gly Lys Lys Glu Ser Leu
     410     415     420
Glu Ser Glu Ala Glu Leu Glu Gly Leu Gln Asp Ala Pro Ala Gly
     425     430     435
Pro Gln Val Ser Glu Glu
     440

```

<210> 15

<211> 487

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3315012CD1

<400> 15

```

Met Leu Arg Ala Pro Gly Cys Leu Leu Arg Thr Ser Val Ala Pro
  1      5      10      15
Ala Ala Ala Leu Ala Ala Ala Leu Leu Ser Ser Leu Ala Arg Cys
  20      25      30
Ser Leu Leu Glu Pro Arg Asp Pro Val Ala Ser Ser Leu Ser Pro

```

WO 00/77040

PCT/US00/16636

	35		40		45
Tyr Phe Gly Thr	Lys Thr Arg Tyr Glu Asp Val Asn Pro Val Leu				
	50		55		60
Leu Ser Gly Pro	Glu Ala Pro Trp Arg Asp Pro Glu Leu Leu Glu				
	65		70		75
Gly Thr Cys Thr	Pro Val Gln Leu Val Ala Leu Ile Arg His Gly				
	80		85		90
Thr Arg Tyr Pro	Thr Val Lys Gln Ile Arg Lys Leu Arg Gln Leu				
	95		100		105
His Gly Leu Leu	Gln Ala Arg Gly Ser Arg Asp Gly Gly Ala Ser				
	110		115		120
Ser Thr Gly Ser	Arg Asp Leu Gly Ala Ala Leu Ala Asp Trp Pro				
	125		130		135
Leu Trp Tyr Ala	Asp Trp Met Asp Gly Gln Leu Val Glu Lys Gly				
	140		145		150
Arg Gln Asp Met	Arg Gln Leu Ala Leu Arg Leu Ala Ser Leu Phe				
	155		160		165
Pro Val Leu Phe	Ser Arg Glu Asn Tyr Gly Arg Leu Arg Leu Ile				
	170		175		180
Thr Ser Ser Lys	His Arg Cys Met Asp Ser Ser Ala Ala Phe Leu				
	185		190		195
Gln Gly Leu Trp	Gln His Tyr His Pro Gly Leu Pro Pro Pro Asp				
	200		205		210
Val Ala Asp Met	Glu Phe Gly Pro Pro Thr Val Asn Asp Lys Leu				
	215		220		225
Met Arg Phe Phe	Asp His Cys Glu Lys Phe Leu Thr Glu Val Glu				
	230		235		240
Lys Asn Ala Thr	Ala Leu Tyr His Val Glu Ala Phe Lys Thr Gly				
	245		250		255
Pro Glu Met Gln	Asn Ile Leu Lys Lys Val Ala Ala Thr Leu Gln				
	260		265		270
Val Pro Val Asn	Asp Leu Asn Ala Asp Leu Ile Gln Val Ala Phe				
	275		280		285
Phe Thr Cys Ser	Phe Asp Leu Ala Ile Lys Gly Val Lys Ser Pro				
	290		295		300
Trp Cys Asp Val	Phe Asp Ile Asp Asp Ala Lys Val Leu Glu Tyr				
	305		310		315
Leu Asn Asp Leu	Lys Gln Tyr Trp Lys Arg Gly Tyr Gly Tyr Thr				
	320		325		330
Ile Asn Ser Arg	Ser Ser Cys Thr Leu Phe Gln Asp Ile Phe Gln				
	335		340		345
His Leu Asp Lys	Ala Val Glu Gln Lys Gln Arg Ser Gln Pro Ile				
	350		355		360
Ser Ser Pro Val	Ile Leu Gln Phe Gly His Ala Glu Thr Leu Leu				
	365		370		375
Pro Leu Leu Ser	Leu Met Gly Tyr Phe Lys Asp Lys Glu Pro Leu				
	380		385		390
Thr Ala Tyr Asn	Tyr Lys Lys Gln Met His Arg Lys Phe Arg Ser				
	395		400		405
Gly Leu Ile Val	Pro Tyr Ala Ser Asn Leu Ile Phe Val Leu Tyr				
	410		415		420
His Cys Glu Asn	Ala Lys Thr Pro Lys Glu Gln Phe Arg Val Gln				
	425		430		435
Met Leu Leu Asn	Glu Lys Val Leu Pro Leu Ala Tyr Ser Gln Glu				
	440		445		450
Thr Val Ser Phe	Tyr Glu Asp Leu Lys Asn His Tyr Lys Asp Ile				
	455		460		465
Leu Gln Ser Cys	Gln Thr Ser Glu Glu Cys Glu Leu Ala Arg Ala				
	470		475		480
Asn Ser Thr Ser	Asp Glu Leu				
	485				

<210> 16

<211> 282

<212> PRT

<213> Homo sapiens

<220>

WO 00/77040

PCT/US00/16636

<221> misc_feature

<223> Incyte ID No: 4155412CD1

<400> 16

Met	Val	Leu	Gly	Lys	Val	Lys	Ser	Leu	Thr	Ile	Ser	Phe	Asp	Cys	
1				5					10					15	
Leu	Asn	Asp	Ser	Asn	Val	Pro	Val	Tyr	Ser	Ser	Gly	Asp	Thr	Val	
				20					25					30	
Ser	Gly	Arg	Val	Asn	Leu	Glu	Val	Thr	Gly	Glu	Ile	Arg	Val	Lys	
				35					40					45	
Ser	Leu	Lys	Ile	His	Ala	Arg	Gly	His	Ala	Lys	Val	Arg	Trp	Thr	
				50					55					60	
Glu	Ser	Arg	Asn	Ala	Gly	Ser	Asn	Thr	Ala	Tyr	Thr	Gln	Asn	Tyr	
				65					70					75	
Thr	Glu	Glu	Val	Glu	Tyr	Phe	Asn	His	Lys	Asp	Ile	Leu	Ile	Gly	
				80					85					90	
His	Glu	Arg	Asp	Asp	Asn	Ser	Glu	Glu	Gly	Phe	His	Thr	Ile		
				95					100					105	
His	Ser	Gly	Arg	His	Glu	Tyr	Ala	Phe	Ser	Phe	Glu	Leu	Pro	Gln	
				110					115					120	
Thr	Pro	Leu	Ala	Thr	Ser	Phe	Glu	Gly	Arg	His	Gly	Ser	Val	Arg	
				125					130					135	
Tyr	Trp	Val	Lys	Ala	Glu	Leu	His	Arg	Pro	Trp	Leu	Leu	Pro	Val	
				140					145					150	
Lys	Leu	Lys	Lys	Glu	Phe	Thr	Val	Phe	Glu	His	Ile	Asp	Ile	Asn	
				155					160					165	
Thr	Pro	Ser	Leu	Leu	Ser	Pro	Gln	Ala	Gly	Thr	Lys	Glu	Lys	Thr	
				170					175					180	
Leu	Cys	Cys	Trp	Phe	Cys	Thr	Ser	Gly	Pro	Ile	Ser	Leu	Ser	Ala	
				185					190					195	
Lys	Ile	Glu	Arg	Lys	Gly	Tyr	Thr	Pro	Gly	Glu	Ser	Ile	Gln	Ile	
				200					205					210	
Phe	Ala	Glu	Ile	Glu	Asn	Cys	Ser	Ser	Arg	Met	Val	Val	Pro	Arg	
				215					220					225	
Gln	Pro	Phe	Thr	Lys	His	Arg	Pro	Ser	Ile	Ala	Lys	Gly	Lys	Leu	
				230					235					240	
Arg	Glu	Leu	Asn	Ser	Leu	Trp	Leu	Thr	Cys	Val	Gly	Asn	Ser	Leu	
				245					250					255	
Thr	Ser	Gly	Lys	Asn	Arg	Asp	Val	Glu	Met	Ala	Ser	Leu	Leu	Lys	
				260					265					270	
Ile	Ser	Asn	Ser	Phe	Pro	Pro	Ser	Asn	Ala	Ser	Asn				
				275					280						

<210> 17

<211> 581

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 4831840CD1

<400> 17

Met	Ala	Val	Ala	Gly	Ala	Val	Ser	Gly	Glu	Pro	Leu	Val	His	Trp	
1				5					10					15	
Cys	Thr	Gln	Gln	Leu	Arg	Lys	Thr	Phe	Gly	Leu	Asp	Val	Ser	Glu	
				20					25					30	
Glu	Ile	Ile	Gln	Tyr	Val	Leu	Ser	Ile	Glu	Ser	Ala	Glu	Glu	Ile	
				35					40					45	
Arg	Glu	Tyr	Val	Thr	Asp	Leu	Leu	Gln	Gly	Asn	Glu	Gly	Lys	Lys	
				50					55					60	
Gly	Gln	Phe	Ile	Glu	Glu	Leu	Ile	Thr	Lys	Trp	Gln	Lys	Asn	Asp	
				65					70					75	
Gln	Glu	Leu	Ile	Ser	Asp	Pro	Leu	Gln	Gln	Cys	Phe	Lys	Lys	Asp	
				80					85					90	
Glu	Ile	Leu	Asp	Gly	Gln	Lys	Ser	Gly	Asp	His	Leu	Lys	Arg	Gly	
				95					100					105	
Arg	Lys	Lys	Gly	Arg	Asn	Arg	Gln	Glu	Val	Pro	Ala	Phe	Thr	Glu	

WO 00/77040

PCT/US00/16636

110	115	120
Pro Asp Thr Thr	Ala Glu Val Lys Thr	Pro Phe Asp Leu Ala Lys
125	130	135
Ala Gln Glu Asn	Ser Asn Ser Val Lys	Lys Lys Thr Lys Phe Val
140	145	150
Asn Leu Tyr Thr	Arg Glu Gly Gln Asp	Arg Leu Ala Val Leu Leu
155	160	165
Pro Gly Arg His	Pro Cys Asp Cys Leu	Gly Gln Lys His Lys Leu
170	175	180
Ile Asn Asn Cys	Leu Ile Cys Gly Arg	Ile Val Cys Glu Gln Glu
185	190	195
Gly Ser Gly Pro	Cys Leu Phe Cys Gly	Thr Leu Val Cys Thr His
200	205	210
Glu Glu Gln Asp	Ile Leu Gln Arg Asp	Ser Asn Lys Ser Gln Lys
215	220	225
Leu Leu Lys Lys	Leu Met Ser Gly Val	Glu Asn Ser Gly Lys Val
230	235	240
Asp Ile Ser Thr	Lys Asp Leu Leu Pro	His Gln Glu Leu Arg Ile
245	250	255
Lys Ser Gly Leu	Glu Lys Ala Ile Lys	His Lys Asp Lys Leu Leu
260	265	270
Glu Phe Asp Arg	Thr Ser Ile Arg Arg	Thr Gln Val Ile Asp Asp
275	280	285
Glu Ser Asp Tyr	Phe Ala Ser Asp Ser	Asn Gln Trp Leu Ser Lys
290	295	300
Leu Glu Arg Glu	Thr Leu Gln Lys Arg	Glu Glu Glu Leu Arg Glu
305	310	315
Leu Arg His Ala	Ser Arg Leu Ser Lys	Lys Val Thr Ile Asp Phe
320	325	330
Ala Gly Arg Lys	Ile Leu Glu Glu Glu	Asn Ser Leu Ala Glu Tyr
335	340	345
His Ser Arg Leu	Asp Glu Thr Ile Gln	Ala Ile Ala Asn Gly Thr
350	355	360
Leu Asn Gln Pro	Leu Thr Lys Leu Asp	Arg Ser Ser Glu Glu Pro
365	370	375
Leu Gly Val Leu	Val Asn Pro Asn Met	Tyr Gln Ser Pro Pro Gln
380	385	390
Trp Val Asp His	Thr Gly Ala Ala Ser	Gln Lys Lys Ala Phe Arg
395	400	405
Ser Ser Gly Phe	Gly Leu Glu Phe Asn	Ser Phe Gln His Gln Leu
410	415	420
Arg Ile Gln Asp	Gln Glu Phe Gln Glu	Gly Phe Asp Gly Gly Trp
425	430	435
Cys Leu Ser Val	His Gln Pro Trp Ala	Ser Leu Leu Val Arg Gly
440	445	450
Ile Lys Arg Val	Glu Gly Arg Ser Trp	Tyr Thr Pro His Arg Gly
455	460	465
Arg Leu Trp Ile	Ala Ala Thr Ala Lys	Lys Pro Ser Pro Gln Glu
470	475	480
Val Ser Glu Leu	Gln Ala Thr Tyr Arg	Leu Leu Arg Gly Lys Asp
485	490	495
Val Glu Phe Pro	Asn Asp Tyr Pro Ser	Gly Cys Leu Leu Gly Cys
500	505	510
Val Asp Leu Ile	Asp Cys Leu Ser Gln	Lys Gln Phe Lys Glu Gln
515	520	525
Phe Pro Asp Ile	Ser Gln Glu Ser Asp	Ser Pro Phe Val Phe Ile
530	535	540
Cys Lys Asn Pro	Gln Glu Met Val Val	Lys Phe Pro Ile Lys Gly
545	550	555
Asn Pro Lys Ile	Trp Lys Leu Asp Ser	Lys Ile His Gln Gly Ala
560	565	570
Lys Lys Gly Leu	Met Lys Gln Asn Lys	Ala Val
575	580	

<210> 18

<211> 530

<212> PRT

<213> Homo sapiens

WO 00/77040

PCT/US00/16636

<220>

<221> misc_feature

<223> Incyte ID No: 5676581CD1

<400> 18

Met	Thr	Thr	Arg	Pro	Thr	Ala	Val	Lys	Ala	Thr	Gly	Gly	Leu	Cys
1				5					10					15
Leu	Leu	Gly	Ala	Tyr	Ala	Asp	Ser	Asp	Asp	Asp	Asp	Asn	Asp	Val
				20					25					30
Ser	Glu	Lys	Leu	Ala	Gln	Ser	Lys	Glu	Thr	Asn	Gly	Asn	Gln	Ser
				35					40					45
Thr	Asp	Ile	Asp	Ser	Thr	Leu	Ala	Asn	Phe	Leu	Ala	Glu	Ile	Asp
				50					55					60
Ala	Ile	Thr	Ala	Pro	Gln	Pro	Ala	Ala	Pro	Val	Gly	Ala	Ser	Ala
				65					70					75
Pro	Pro	Pro	Thr	Pro	Pro	Arg	Pro	Glu	Pro	Lys	Glu	Ala	Ala	Thr
				80					85					90
Ser	Thr	Leu	Ser	Ser	Ser	Thr	Ser	Asn	Gly	Thr	Asp	Ser	Thr	Gln
				95					100					105
Thr	Ser	Gly	Trp	Gln	Tyr	Asp	Thr	Gln	Cys	Ser	Leu	Ala	Gly	Val
				110					115					120
Gly	Ile	Glu	Met	Gly	Asp	Trp	Gln	Glu	Val	Trp	Asp	Glu	Asn	Thr
				125					130					135
Gly	Cys	Tyr	Tyr	Tyr	Trp	Asn	Thr	Gln	Thr	Asn	Glu	Val	Thr	Trp
				140					145					150
Glu	Leu	Pro	Gln	Tyr	Leu	Ala	Thr	Gln	Val	Gln	Gly	Leu	Gln	His
				155					160					165
Tyr	Gln	Pro	Ser	Ser	Val	Pro	Gly	Ala	Glu	Thr	Ser	Phe	Val	Val
				170					175					180
Asn	Thr	Asp	Ile	Tyr	Ser	Lys	Glu	Lys	Thr	Ile	Ser	Val	Ser	Ser
				185					190					195
Ser	Lys	Ser	Gly	Pro	Val	Ile	Ala	Lys	Arg	Glu	Val	Lys	Lys	Glu
				200					205					210
Val	Asn	Glu	Gly	Ile	Gln	Ala	Leu	Ser	Asn	Ser	Glu	Glu	Glu	Lys
				215					220					225
Lys	Gly	Val	Ala	Ala	Ser	Leu	Leu	Ala	Pro	Leu	Leu	Pro	Glu	Gly
				230					235					240
Ile	Lys	Glu	Glu	Glu	Glu	Arg	Trp	Arg	Arg	Lys	Val	Ile	Cys	Lys
				245					250					255
Glu	Glu	Pro	Val	Ser	Glu	Val	Lys	Glu	Thr	Ser	Thr	Thr	Val	Glu
				260					265					270
Glu	Ala	Thr	Thr	Ile	Val	Lys	Pro	Gln	Glu	Ile	Met	Leu	Asp	Asn
				275					280					285
Ile	Glu	Asp	Pro	Ser	Gln	Glu	Asp	Leu	Cys	Ser	Val	Val	Gln	Ser
				290					295					300
Gly	Glu	Ser	Glu	Glu	Glu	Glu	Glu	Gln	Asp	Thr	Leu	Glu	Leu	Glu
				305					310					315
Leu	Val	Leu	Glu	Arg	Lys	Lys	Ala	Glu	Leu	Arg	Ala	Leu	Glu	Glu
				320					325					330
Gly	Asp	Gly	Ser	Val	Ser	Gly	Ser	Ser	Pro	Arg	Ser	Asp	Ile	Ser
				335					340					345
Gln	Pro	Ala	Ser	Gln	Asp	Gly	Met	Arg	Arg	Leu	Met	Ser	Lys	Arg
				350					355					360
Gly	Lys	Trp	Lys	Met	Phe	Val	Arg	Ala	Thr	Ser	Pro	Glu	Ser	Thr
				365					370					375
Ser	Arg	Ser	Ser	Ser	Lys	Thr	Gly	Arg	Asp	Thr	Pro	Glu	Asn	Gly
				380					385					390
Glu	Thr	Ala	Ile	Gly	Ala	Glu	Asn	Ser	Glu	Lys	Ile	Asp	Glu	Asn
				395					400					405
Ser	Asp	Lys	Glu	Met	Glu	Val	Glu	Glu	Ser	Pro	Glu	Lys	Ile	Lys
				410					415					420
Val	Gln	Thr	Thr	Pro	Lys	Val	Glu	Glu	Glu	Gln	Asp	Leu	Lys	Phe
				425					430					435
Gln	Ile	Gly	Glu	Leu	Ala	Asn	Thr	Leu	Thr	Ser	Lys	Phe	Glu	Phe
				440					445					450
Leu	Gly	Ile	Asn	Arg	Gln	Ser	Ile	Ser	Asn	Phe	His	Val	Leu	Leu
				455					460					465

WO 00/77040

PCT/US00/16636

Leu	Gln	Thr	Glu	Thr	Arg	Ile	Ala	Asp	Trp	Arg	Glu	Gly	Ala	Leu
				470					475					480
Asn	Gly	Asn	Tyr	Leu	Lys	Arg	Lys	Leu	Gln	Asp	Ala	Ala	Glu	Gln
				485					490					495
Leu	Lys	Gln	Tyr	Glu	Ile	Asn	Ala	Thr	Pro	Lys	Gly	Trp	Ser	Cys
				500					505					510
His	Trp	Asp	Arg	Tyr	Ala	Leu	Phe	Ser	Pro	Phe	His	Leu	Ser	Pro
				515					520					525
Leu	Thr	Ser	Gln	Thr										
				530										

<210> 19

<211> 475

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 034159CD1

<400> 19

Met	Gln	Lys	Ser	Thr	Asn	Ser	Asp	Thr	Ser	Val	Glu	Thr	Leu	Asn
1				5					10					15
Ser	Thr	Arg	Gln	Gly	Thr	Gly	Ala	Val	Gln	Met	Arg	Ile	Lys	Asn
				20					25					30
Ala	Asn	Ser	His	His	Asp	Arg	Leu	Ser	Gln	Ser	Lys	Ser	Met	Ile
				35					40					45
Leu	Thr	Asp	Val	Gly	Lys	Val	Thr	Glu	Pro	Ile	Ser	Arg	His	Arg
				50					55					60
Arg	Asn	His	Ser	Gln	His	Ile	Leu	Lys	Asp	Val	Ile	Pro	Pro	Leu
				65					70					75
Glu	Gln	Leu	Met	Val	Glu	Lys	Glu	Gly	Tyr	Leu	Gln	Lys	Ala	Lys
				80					85					90
Ile	Ala	Asp	Gly	Gly	Lys	Lys	Leu	Arg	Lys	Asn	Trp	Ser	Thr	Ser
				95					100					105
Trp	Ile	Val	Leu	Ser	Ser	Arg	Arg	Ile	Glu	Phe	Tyr	Lys	Glu	Ser
				110					115					120
Lys	Gln	Gln	Ala	Leu	Ser	Asn	Met	Lys	Thr	Gly	His	Lys	Pro	Glu
				125					130					135
Ser	Val	Asp	Leu	Cys	Gly	Ala	His	Ile	Glu	Trp	Ala	Lys	Glu	Lys
				140					145					150
Ser	Ser	Arg	Lys	Asn	Val	Phe	Gln	Ile	Thr	Thr	Val	Ser	Gly	Asn
				155					160					165
Glu	Phe	Leu	Leu	Gln	Ser	Asp	Ile	Asp	Phe	Ile	Ile	Leu	Asp	Trp
				170					175					180
Phe	His	Ala	Ile	Lys	Asn	Ala	Ile	Asp	Arg	Leu	Pro	Lys	Asp	Ser
				185					190					195
Ser	Cys	Pro	Ser	Arg	Asn	Leu	Glu	Leu	Phe	Lys	Ile	Gln	Arg	Ser
				200					205					210
Ser	Ser	Thr	Glu	Leu	Leu	Ser	His	Tyr	Asp	Ser	Asp	Ile	Lys	Glu
				215					220					225
Gln	Lys	Pro	Glu	His	Arg	Lys	Ser	Leu	Met	Phe	Arg	Leu	His	His
				230					235					240
Ser	Ala	Ser	Asp	Thr	Ser	Asp	Lys	Asn	Arg	Val	Lys	Ser	Arg	Leu
				245					250					255
Lys	Lys	Phe	Ile	Thr	Arg	Arg	Pro	Ser	Leu	Lys	Thr	Leu	Gln	Glu
				260					265					270
Lys	Gly	Leu	Ile	Lys	Asp	Gln	Ile	Phe	Gly	Ser	His	Leu	His	Lys
				275					280					285
Val	Cys	Glu	Arg	Glu	Asn	Ser	Thr	Val	Pro	Trp	Phe	Val	Lys	Gln
				290					295					300
Cys	Ile	Glu	Ala	Val	Glu	Lys	Arg	Gly	Leu	Asp	Val	Asp	Gly	Ile
				305					310					315
Tyr	Arg	Val	Ser	Gly	Asn	Leu	Ala	Thr	Ile	Gln	Lys	Leu	Arg	Phe
				320					325					330
Ile	Val	Asn	Gln	Glu	Glu	Lys	Leu	Asn	Leu	Asp	Asp	Ser	Gln	Trp
				335					340					345
Glu	Asp	Ile	His	Val	Val	Thr	Gly	Ala	Leu	Lys	Met	Phe	Phe	Arg

WO 00/77040

PCT/US00/16636

Glu	Leu	Pro	Glu	350	Pro	Leu	Phe	Pro	Tyr	355	Ser	Phe	Phe	Glu	Gln	360
				365						370						375
Val	Glu	Ala	Ile	380	Lys	Gln	Asp	Asn		385	Thr	Arg	Ile	Glu	Ala	390
Val	Lys	Ser	Leu	395	Val	Gln	Lys	Leu	Pro	400	Pro	Pro	Asn	Arg	Asp	405
Met	Lys	Val	Leu	410	Gly	His	Leu	Thr		415	Lys	Ile	Val	Ala	Lys	420
Ser	Lys	Asn	Leu	425	Met	Ser	Thr	Gln	Ser	430	Leu	Gly	Ile	Val	Phe	435
Pro	Thr	Leu	Leu	440	Arg	Ala	Glu	Asn	Glu	445	Thr	Gly	Asn	Met	Ala	450
His	Met	Val	Tyr	455	Gln	Asn	Gln	Ile	Ala	460	Glu	Leu	Met	Leu	Ser	465
Tyr	Ser	Lys	Ile	470	Phe	Gly	Ser	Glu	Glu	475	Asp					

<210> 20

<211> 368

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 129023CD1

<400> 20

Met	Ala	Asn	Glu	Asn	His	Gly	Ser	Pro	Arg	Glu	Glu	Ala	Ser	Leu		
1				5					10					15		
Leu	Ser	His	Ser	Pro	Gly	Thr	Ser	Asn	Gln	Ser	Gln	Pro	Cys	Ser		
				20					25					30		
Pro	Lys	Pro	Ile	Arg	Leu	Val	Gln	Asp	Leu	Pro	Glu	Glu	Leu	Val		
				35					40					45		
His	Ala	Gly	Trp	Glu	Lys	Cys	Trp	Ser	Arg	Arg	Glu	Asn	Arg	Pro		
				50					55					60		
Tyr	Tyr	Phe	Asn	Arg	Phe	Thr	Asn	Gln	Ser	Leu	Trp	Glu	Met	Pro		
				65					70					75		
Val	Leu	Gly	Gln	His	Asp	Val	Ile	Ser	Asp	Pro	Leu	Gly	Leu	Asn		
				80					85					90		
Ala	Thr	Pro	Leu	Pro	Gln	Asp	Ser	Ser	Leu	Val	Glu	Thr	Pro	Pro		
				95					100					105		
Ala	Glu	Asn	Lys	Pro	Arg	Lys	Arg	Gln	Leu	Ser	Glu	Glu	Gln	Pro		
				110					115					120		
Ser	Gly	Asn	Gly	Val	Lys	Lys	Pro	Lys	Ile	Glu	Ile	Pro	Val	Thr		
				125					130					135		
Pro	Thr	Gly	Gln	Ser	Val	Pro	Ser	Ser	Pro	Ser	Ile	Pro	Gly	Thr		
				140					145					150		
Pro	Thr	Leu	Lys	Met	Trp	Gly	Thr	Ser	Pro	Glu	Asp	Lys	Gln	Gln		
				155					160					165		
Ala	Ala	Leu	Leu	Arg	Pro	Thr	Glu	Val	Tyr	Trp	Asp	Leu	Asp	Ile		
				170					175					180		
Gln	Thr	Asn	Ala	Val	Ile	Lys	His	Arg	Gly	Pro	Ser	Glu	Val	Leu		
				185					190					195		
Pro	Pro	His	Pro	Glu	Val	Glu	Leu	Leu	Arg	Ser	Gln	Leu	Ile	Leu		
				200					205					210		
Lys	Leu	Arg	Gln	His	Tyr	Arg	Glu	Leu	Cys	Gln	Gln	Arg	Glu	Gly		
				215					220					225		
Ile	Glu	Pro	Pro	Arg	Glu	Ser	Phe	Asn	Arg	Trp	Met	Leu	Glu	Arg		
				230					235					240		
Lys	Val	Val	Asp	Lys	Gly	Ser	Asp	Pro	Leu	Leu	Pro	Ser	Asn	Cys		
				245					250					255		
Glu	Pro	Val	Val	Ser	Pro	Ser	Met	Phe	Arg	Glu	Ile	Met	Asn	Asp		
				260					265					270		
Ile	Pro	Ile	Arg	Leu	Ser	Arg	Ile	Lys	Phe	Arg	Glu	Glu	Ala	Lys		
				275					280					285		
Arg	Leu	Leu	Phe	Lys	Tyr	Ala	Glu	Ala	Ala	Arg	Arg	Leu	Ile	Glu		
				290					295					300		

WO 00/77040

PCT/US00/16636

	350		355		360
Phe Gln Glu Val	Glu Asn Phe Phe Thr	Phe Leu Lys Asn Ile Asn			
	365		370		375
Asp Val Asp Thr	Ala Leu Ser Phe Tyr	His Met Ala Gly Ala Ser			
	380		385		390
Leu Asp Lys Val	Thr Met Gln Gln Val	Ala Arg Thr Val Ala Lys			
	395		400		405
Val Glu Leu Ser	Asp His Val Cys Asp	Val Val Phe Ala Leu Phe			
	410		415		420
Asp Cys Asp Gly	Asn Gly Glu Leu Ser	Asn Lys Glu Phe Val Ser			
	425		430		435
Ile Met Lys Gln	Arg Leu Met Arg Gly	Leu Glu Lys Pro Lys Asp			
	440		445		450
Met Gly Phe Thr	Arg Leu Met Gln Ala	Met Trp Lys Cys Ala Gln			
	455		460		465
Glu Thr Ala Trp	Asp Phe Ala Leu Pro	Lys Gln			
	470		475		

<210> 22

<211> 171

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1682320CD1

<400> 22

Met Glu Lys Arg	Leu Gln Glu Ala Gln	Leu Tyr Lys Glu Glu Gly			
1	5	10			15
Asn Gln Arg Tyr	Arg Glu Gly Lys Tyr	Arg Asp Ala Val Ser Arg			
	20	25			30
Tyr His Arg Ala	Leu Leu Gln Leu Arg	Gly Leu Asp Pro Ser Leu			
	35	40			45
Pro Ser Pro Leu	Pro Asn Leu Gly Pro	Gln Gly Pro Ala Leu Thr			
	50	55			60
Pro Glu Gln Glu	Asn Ile Leu His Thr	Thr Gln Thr Asp Cys Tyr			
	65	70			75
Asn Asn Leu Ala	Ala Cys Leu Leu Gln	Met Glu Pro Val Asn Tyr			
	80	85			90
Glu Arg Val Arg	Glu Tyr Ser Gln Lys	Val Leu Glu Arg Gln Pro			
	95	100			105
Asp Asn Ala Lys	Ala Leu Tyr Arg Ala	Gly Val Ala Phe Phe His			
	110	115			120
Leu Gln Asp Tyr	Asp Gln Ala Arg His	Tyr Leu Leu Ala Ala Val			
	125	130			135
Asn Arg Gln Pro	Lys Asp Ala Asn Val	Arg Arg Tyr Leu Gln Leu			
	140	145			150
Thr Gln Ser Glu	Leu Ser Ser Tyr His	Arg Lys Glu Lys Gln Leu			
	155	160			165
Tyr Leu Gly Met	Phe Gly				
	170				

<210> 23

<211> 163

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1728263CD1

<400> 23

Met Phe Phe Ser	Glu Ala Arg Ala Arg	Ser Arg Thr Trp Glu Ala			
1	5	10			15
Ser Pro Ser Glu	His Arg Lys Trp Val	Glu Val Phe Lys Ala Cys			
	20	25			30
Asp Glu Asp His	Lys Gly Tyr Leu Ser	Arg Glu Asp Phe Lys Thr			
	35	40			45

WO 00/77040

PCT/US00/16636

Ala	Val	Val	Met	Leu	Phe	Gly	Tyr	Lys	Pro	Ser	Lys	Ile	Glu	Val
				50					55					60
Asp	Ser	Val	Met	Ser	Ser	Ile	Asn	Pro	Asn	Thr	Ser	Gly	Ile	Leu
				65					70					75
Leu	Glu	Gly	Phe	Leu	Asn	Ile	Val	Arg	Lys	Lys	Lys	Glu	Ala	Gln
				80					85					90
Arg	Tyr	Arg	Asn	Glu	Val	Arg	His	Ile	Phe	Thr	Ala	Phe	Asp	Thr
				95					100					105
Tyr	Tyr	Arg	Gly	Phe	Leu	Thr	Leu	Glu	Asp	Phe	Lys	Lys	Ala	Phe
				110					115					120
Arg	Gln	Val	Ala	Pro	Lys	Leu	Pro	Glu	Arg	Thr	Val	Leu	Glu	Val
				125					130					135
Phe	Arg	Glu	Val	Asp	Arg	Asp	Ser	Asp	Gly	His	Val	Ser	Phe	Arg
				140					145					150
Asp	Phe	Glu	Tyr	Ala	Leu	Asn	Tyr	Gly	Gln	Lys	Glu	Ala		
				155					160					

<210> 24

<211> 354

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1867626CD1

<400> 24

Met	Gly	Glu	Gln	Pro	Ile	Phe	Ser	Thr	Arg	Ala	His	Val	Phe	Gln
1				5					10					15
Ile	Asp	Pro	Asn	Thr	Lys	Lys	Asn	Trp	Val	Pro	Thr	Ser	Lys	His
				20					25					30
Ala	Val	Thr	Val	Ser	Tyr	Phe	Tyr	Asp	Ser	Thr	Arg	Asn	Val	Tyr
				35					40					45
Arg	Ile	Ile	Ser	Leu	Asp	Gly	Ser	Lys	Ala	Ile	Ile	Asn	Ser	Thr
				50					55					60
Ile	Thr	Pro	Asn	Met	Thr	Phe	Thr	Lys	Thr	Ser	Gln	Arg	Phe	Gly
				65					70					75
Gln	Trp	Ala	Asp	Ser	Arg	Ala	Asn	Thr	Val	Tyr	Gly	Leu	Gly	Phe
				80					85					90
Ser	Ser	Glu	His	His	Leu	Ser	Lys	Phe	Ala	Glu	Lys	Phe	Gln	Glu
				95					100					105
Phe	Lys	Glu	Ala	Ala	Arg	Leu	Ala	Lys	Glu	Lys	Ser	Gln	Glu	Lys
				110					115					120
Met	Glu	Leu	Thr	Ser	Thr	Pro	Ser	Gln	Glu	Ser	Ala	Gly	Gly	Asp
				125					130					135
Leu	Gln	Ser	Pro	Leu	Thr	Pro	Glu	Ser	Ile	Asn	Gly	Thr	Asp	Asp
				140					145					150
Glu	Arg	Thr	Pro	Asp	Val	Thr	Gln	Asn	Ser	Glu	Pro	Arg	Ala	Glu
				155					160					165
Pro	Thr	Gln	Asn	Ala	Leu	Pro	Phe	Ser	His	Ser	Ser	Ala	Ile	Ser
				170					175					180
Lys	His	Trp	Glu	Ala	Glu	Leu	Ala	Thr	Leu	Lys	Gly	Asn	Asn	Ala
				185					190					195
Lys	Leu	Thr	Ala	Ala	Leu	Leu	Glu	Ser	Thr	Ala	Asn	Val	Lys	Gln
				200					205					210
Trp	Lys	Gln	Gln	Leu	Ala	Ala	Tyr	Gln	Glu	Glu	Ala	Glu	Arg	Leu
				215					220					225
His	Lys	Arg	Val	Thr	Glu	Leu	Glu	Cys	Val	Ser	Ser	Gln	Ala	Asn
				230					235					240
Ala	Val	His	Thr	His	Lys	Thr	Glu	Leu	Asn	Gln	Thr	Ile	Gln	Glu
				245					250					255
Leu	Glu	Glu	Thr	Leu	Lys	Leu	Lys	Glu	Glu	Glu	Ile	Glu	Arg	Leu
				260					265					270
Lys	Gln	Glu	Ile	Asp	Asn	Ala	Arg	Glu	Leu	Gln	Glu	Gln	Arg	Asp
				275					280					285
Ser	Leu	Thr	Gln	Lys	Leu	Gln	Glu	Val	Glu	Ile	Arg	Asn	Lys	Asp
				290					295					300
Leu	Glu	Gly	Gln	Leu	Ser	Asp	Leu	Glu	Gln	Arg	Leu	Glu	Lys	Ser

WO 00/77040

PCT/US00/16636

```

305          310          315
Gln Asn Glu Gln Glu Ala Phe Arg Asn Asn Leu Lys Thr Leu Leu
320          325          330
Glu Ile Leu Asp Gly Lys Ile Phe Glu Leu Thr Glu Leu Arg Asp
335          340          345
Asn Leu Ala Lys Leu Leu Glu Cys Ser
350

<210> 25
<211> 365
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1990126CD1

<400> 25
Met Asn Ile Met Asp Phe Asn Val Lys Lys Leu Ala Ala Asp Ala
  1          5          10          15
Gly Thr Phe Leu Ser Arg Ala Val Gln Phe Thr Glu Glu Lys Leu
  20          25          30
Gly Gln Ala Glu Lys Thr Glu Leu Asp Ala His Leu Glu Asn Leu
  35          40          45
Leu Ser Lys Ala Glu Cys Thr Lys Ile Trp Thr Glu Lys Ile Met
  50          55          60
Lys Gln Thr Glu Val Leu Leu Gln Pro Asn Pro Asn Ala Arg Ile
  65          70          75
Glu Glu Phe Val Tyr Glu Lys Leu Asp Arg Lys Ala Pro Ser Arg
  80          85          90
Ile Asn Asn Pro Glu Leu Leu Gly Gln Tyr Met Ile Asp Ala Gly
  95          100          105
Thr Glu Phe Gly Pro Gly Thr Ala Tyr Gly Asn Ala Leu Ile Lys
  110          115          120
Cys Gly Glu Thr Gln Lys Arg Ile Gly Thr Ala Asp Arg Glu Leu
  125          130          135
Ile Gln Thr Ser Ala Leu Asn Phe Leu Thr Pro Leu Arg Asn Phe
  140          145          150
Ile Glu Gly Asp Tyr Lys Thr Ile Ala Lys Glu Arg Lys Leu Leu
  155          160          165
Gln Asn Lys Arg Leu Asp Leu Asp Ala Ala Lys Thr Arg Leu Lys
  170          175          180
Lys Ala Lys Ala Ala Glu Thr Arg Asn Ser Ser Glu Gln Glu Leu
  185          190          195
Arg Ile Thr Gln Ser Glu Phe Asp Arg Gln Ala Glu Ile Thr Arg
  200          205          210
Leu Leu Leu Glu Gly Ile Ser Ser Thr His Ala His His Leu Arg
  215          220          225
Cys Leu Asn Asp Phe Val Glu Ala Gln Met Thr Tyr Tyr Ala Gln
  230          235          240
Cys Tyr Gln Tyr Met Leu Asp Leu Gln Lys Gln Leu Gly Ser Phe
  245          250          255
Pro Ser Asn Tyr Leu Ser Asn Asn Asn Gln Thr Ser Val Thr Pro
  260          265          270
Val Pro Ser Val Leu Pro Asn Ala Ile Gly Ser Ser Ala Met Ala
  275          280          285
Ser Thr Ser Gly Leu Val Ile Thr Ser Pro Ser Asn Leu Ser Asp
  290          295          300
Leu Lys Glu Cys Ser Gly Ser Arg Lys Ala Arg Val Leu Tyr Asp
  305          310          315
Tyr Asp Ala Ala Asn Ser Thr Glu Leu Ser Leu Leu Ala Asp Glu
  320          325          330
Val Ile Thr Val Phe Ser Val Val Gly Met Asp Ser Asp Trp Leu
  335          340          345
Met Gly Glu Arg Gly Asn Gln Lys Gly Lys Val Pro Ile Thr Tyr
  350          355          360
Leu Glu Leu Leu Asn
  365

```

WO 00/77040

PCT/US00/16636

<210> 26
 <211> 274
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2104180CD1

<400> 26
 Met Ala Thr Thr Val Ser Thr Gln Arg Gly Pro Val Tyr Ile Gly
 1 5 10 15
 Glu Leu Pro Gln Asp Phe Leu Arg Ile Thr Pro Thr Gln Gln Gln
 20 25 30
 Arg Gln Val Gln Leu Asp Ala Gln Ala Ala Gln Gln Leu Gln Tyr
 35 40 45
 Gly Gly Ala Val Gly Thr Val Gly Arg Leu Asn Ile Thr Val Val
 50 55 60
 Gln Ala Lys Leu Ala Lys Asn Tyr Gly Met Thr Arg Met Asp Pro
 65 70 75
 Tyr Cys Arg Leu Arg Leu Gly Tyr Ala Val Tyr Glu Thr Pro Thr
 80 85 90
 Ala His Asn Gly Ala Lys Asn Pro Arg Trp Asn Lys Val Ile His
 95 100 105
 Cys Thr Val Pro Pro Gly Val Asp Ser Phe Tyr Leu Glu Ile Phe
 110 115 120
 Asp Glu Arg Ala Phe Ser Met Asp Asp Arg Ile Ala Trp Thr His
 125 130 135
 Ile Thr Ile Pro Glu Ser Leu Arg Gln Gly Lys Val Glu Asp Lys
 140 145 150
 Trp Tyr Ser Leu Ser Gly Arg Gln Gly Asp Asp Lys Glu Gly Met
 155 160 165
 Ile Asn Leu Val Met Ser Tyr Ala Leu Leu Pro Ala Ala Met Val
 170 175 180
 Met Pro Pro Gln Pro Val Val Leu Met Pro Thr Val Tyr Gln Gln
 185 190 195
 Gly Val Gly Tyr Val Pro Ile Thr Gly Met Pro Ala Val Cys Ser
 200 205 210
 Pro Gly Met Val Pro Val Ala Leu Pro Pro Ala Ala Val Asn Ala
 215 220 225
 Gln Pro Arg Cys Ser Glu Glu Asp Leu Lys Ala Ile Gln Asp Met
 230 235 240
 Phe Pro Asn Met Asp Gln Glu Val Ile Arg Ser Val Leu Glu Ala
 245 250 255
 Gln Arg Gly Asn Lys Asp Ala Ala Ile Asn Ser Leu Leu Gln Met
 260 265 270
 Gly Glu Glu Pro

<210> 27
 <211> 129
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2122241CD1

<400> 27
 Met Arg Arg Arg Gly Glu Ile Asp Met Ala Thr Glu Gly Asp Val
 1 5 10 15
 Glu Leu Glu Leu Glu Thr Glu Thr Ser Gly Pro Glu Arg Pro Pro
 20 25 30
 Glu Lys Pro Arg Lys His Asp Ser Gly Ala Ala Asp Leu Glu Arg
 35 40 45
 Val Thr Asp Tyr Ala Glu Glu Lys Glu Ile Gln Ser Ser Asn Leu
 50 55 60
 Glu Thr Ala Met Ser Val Ile Gly Asp Arg Arg Ser Arg Glu Gln

WO 00/77040

PCT/US00/16636

	65		70		75									
Lys	Ala	Lys	Gln	Glu	Arg	Glu	Lys	Glu	Leu	Ala	Lys	Val	Thr	Ile
	80								85					90
Lys	Lys	Glu	Asp	Leu	Glu	Leu	Ile	Met	Thr	Glu	Met	Glu	Ile	Ser
	95								100					105
Arg	Ala	Ala	Ala	Glu	Arg	Ser	Leu	Arg	Glu	His	Met	Gly	Asn	Val
	110								115					120
Val	Glu	Ala	Leu	Ile	Ala	Leu	Thr	Asn						
	125													

<210> 28

<211> 626

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2580428CD1

<400> 28

Met	Gln	Arg	Ala	Asp	Ser	Glu	Gln	Pro	Ser	Lys	Arg	Pro	Arg	Cys
1				5					10					15
Asp	Asp	Ser	Pro	Arg	Thr	Pro	Ser	Asn	Thr	Pro	Ser	Ala	Glu	Ala
				20					25					30
Asp	Trp	Ser	Pro	Gly	Leu	Glu	Leu	His	Pro	Asp	Tyr	Lys	Thr	Trp
				35					40					45
Gly	Pro	Glu	Gln	Val	Cys	Ser	Phe	Leu	Arg	Arg	Gly	Gly	Phe	Glu
				50					55					60
Glu	Pro	Val	Leu	Leu	Lys	Asn	Ile	Arg	Glu	Asn	Glu	Ile	Thr	Gly
				65					70					75
Ala	Leu	Leu	Pro	Cys	Leu	Asp	Glu	Ser	Arg	Phe	Glu	Asn	Leu	Gly
				80					85					90
Val	Ser	Ser	Leu	Gly	Glu	Arg	Lys	Lys	Leu	Leu	Ser	Tyr	Ile	Gln
				95					100					105
Arg	Leu	Val	Gln	Ile	His	Val	Asp	Thr	Met	Lys	Val	Ile	Asn	Asp
				110					115					120
Pro	Ile	His	Gly	His	Ile	Glu	Leu	His	Pro	Leu	Leu	Val	Arg	Ile
				125					130					135
Ile	Asp	Thr	Pro	Gln	Phe	Gln	Arg	Leu	Arg	Tyr	Ile	Lys	Gln	Leu
				140					145					150
Gly	Gly	Gly	Tyr	Tyr	Val	Phe	Pro	Gly	Ala	Ser	His	Asn	Arg	Phe
				155					160					165
Glu	His	Ser	Leu	Gly	Val	Gly	Tyr	Leu	Ala	Gly	Cys	Leu	Val	His
				170					175					180
Ala	Leu	Gly	Glu	Lys	Gln	Pro	Glu	Leu	Gln	Ile	Ser	Glu	Arg	Asp
				185					190					195
Val	Leu	Cys	Val	Gln	Ile	Ala	Gly	Leu	Cys	His	Asp	Leu	Gly	His
				200					205					210
Gly	Pro	Phe	Ser	His	Met	Phe	Asp	Gly	Arg	Phe	Ile	Pro	Leu	Ala
				215					220					225
Arg	Pro	Glu	Val	Lys	Trp	Thr	His	Glu	Gln	Gly	Ser	Val	Met	Met
				230					235					240
Phe	Glu	His	Leu	Ile	Asn	Ser	Asn	Gly	Ile	Lys	Pro	Val	Met	Glu
				245					250					255
Gln	Tyr	Gly	Leu	Ile	Pro	Glu	Glu	Asp	Ile	Cys	Phe	Ile	Lys	Glu
				260					265					270
Gln	Ile	Val	Gly	Pro	Leu	Glu	Ser	Pro	Val	Glu	Asp	Ser	Leu	Trp
				275					280					285
Pro	Tyr	Lys	Gly	Arg	Pro	Glu	Asn	Lys	Ser	Phe	Leu	Tyr	Glu	Ile
				290					295					300
Val	Ser	Asn	Lys	Arg	Asn	Gly	Ile	Asp	Val	Asp	Lys	Trp	Asp	Tyr
				305					310					315
Phe	Ala	Arg	Asp	Cys	His	His	Leu	Gly	Ile	Gln	Asn	Asn	Phe	Asp
				320					325					330
Tyr	Lys	Arg	Phe	Ile	Lys	Phe	Ala	Arg	Val	Cys	Glu	Val	Asp	Asn
				335					340					345
Glu	Leu	Arg	Ile	Cys	Ala	Arg	Asp	Lys	Glu	Val	Gly	Asn	Leu	Tyr
				350					355					360

WO 00/77040

PCT/US00/16636

Asp	Met	Phe	His	Thr	Arg	Asn	Ser	Leu	His	Arg	Arg	Ala	Tyr	Gln
				365					370					375
His	Lys	Val	Gly	Asn	Ile	Ile	Asp	Thr	Met	Ile	Thr	Asp	Ala	Phe
				380					385					390
Leu	Lys	Ala	Asp	Asp	Tyr	Ile	Glu	Ile	Thr	Gly	Ala	Gly	Gly	Lys
				395					400					405
Lys	Tyr	Arg	Ile	Ser	Thr	Ala	Ile	Asp	Asp	Met	Glu	Ala	Tyr	Thr
				410					415					420
Lys	Leu	Thr	Asp	Asn	Ile	Phe	Leu	Glu	Ile	Leu	Tyr	Ser	Thr	Asp
				425					430					435
Pro	Lys	Leu	Lys	Asp	Ala	Arg	Glu	Ile	Leu	Lys	Gln	Ile	Glu	Tyr
				440					445					450
Arg	Asn	Leu	Phe	Lys	Tyr	Val	Gly	Glu	Thr	Gln	Pro	Thr	Gly	Gln
				455					460					465
Ile	Lys	Ile	Lys	Arg	Glu	Asp	Tyr	Glu	Ser	Leu	Pro	Lys	Glu	Val
				470					475					480
Ala	Ser	Ala	Lys	Pro	Lys	Val	Leu	Leu	Asp	Val	Lys	Leu	Lys	Ala
				485					490					495
Glu	Asp	Phe	Ile	Val	Asp	Val	Ile	Asn	Met	Asp	Tyr	Gly	Met	Gln
				500					505					510
Glu	Lys	Asn	Pro	Ile	Asp	His	Val	Ser	Phe	Tyr	Cys	Lys	Thr	Ala
				515					520					525
Pro	Asn	Arg	Ala	Ile	Arg	Ile	Thr	Lys	Asn	Gln	Val	Ser	Gln	Leu
				530					535					540
Leu	Pro	Glu	Lys	Phe	Ala	Glu	Gln	Leu	Ile	Arg	Val	Tyr	Cys	Lys
				545					550					555
Lys	Val	Asp	Arg	Lys	Ser	Leu	Tyr	Ala	Ala	Arg	Gln	Tyr	Phe	Val
				560					565					570
Gln	Trp	Cys	Ala	Asp	Arg	Asn	Phe	Thr	Lys	Pro	Gln	Asp	Gly	Asp
				575					580					585
Val	Ile	Ala	Pro	Leu	Ile	Thr	Pro	Gln	Lys	Lys	Glu	Trp	Asn	Asp
				590					595					600
Ser	Thr	Ser	Val	Gln	Asn	Pro	Thr	Arg	Leu	Arg	Glu	Ala	Ser	Lys
				605					610					615
Ser	Arg	Val	Gln	Leu	Phe	Lys	Asp	Asp	Pro	Met				
				620					625					

<210> 29

<211> 157

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3397189CD1

<400> 29

Met	Ala	Pro	Lys	Lys	Leu	Ser	Cys	Leu	Arg	Ser	Leu	Leu	Leu	Pro
1				5					10					15
Leu	Ser	Leu	Thr	Leu	Leu	Leu	Pro	Gln	Ala	Asp	Thr	Arg	Ser	Phe
				20					25					30
Val	Val	Asp	Arg	Gly	His	Asp	Arg	Phe	Leu	Leu	Asp	Gly	Ala	Pro
				35					40					45
Phe	Arg	Tyr	Val	Ser	Gly	Ser	Leu	His	Tyr	Phe	Arg	Val	Pro	Arg
				50					55					60
Val	Leu	Trp	Ala	Asp	Arg	Leu	Leu	Lys	Met	Arg	Trp	Ser	Gly	Leu
				65					70					75
Asn	Ala	Ile	Gln	Phe	Tyr	Val	Pro	Trp	Asn	Tyr	His	Glu	Pro	Gln
				80					85					90
Pro	Gly	Val	Tyr	Asn	Phe	Asn	Gly	Ser	Arg	Asp	Leu	Ile	Ala	Phe
				95					100					105
Leu	Asn	Glu	Ala	Ala	Leu	Ala	Asn	Leu	Leu	Val	Ile	Leu	Arg	Pro
				110					115					120
Gly	Pro	Tyr	Ile	Cys	Ala	Glu	Trp	Glu	Met	Gly	Gly	Leu	Pro	Ser
				125					130					135
Trp	Leu	Leu	Arg	Lys	Pro	Glu	Ile	His	Leu	Arg	Thr	Ser	Asp	Pro
				140					145					150
Gly	Glu	Leu	Arg	Gln	Arg	Ile								

WO 00/77040

PCT/US00/16636

155

<210> 30
 <211> 383
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 4881249CD1

<400> 30
 Met Leu Ser Arg Lys Lys Thr Lys Asn Glu Val Ser Lys Pro Ala
 1 5 10 15
 Glu Val Gln Gly Lys Tyr Val Lys Lys Glu Thr Ser Pro Leu Leu
 20 25 30
 Arg Asn Leu Met Pro Ser Phe Ile Arg His Gly Pro Thr Ile Pro
 35 40 45
 Arg Arg Thr Asp Ile Cys Leu Pro Asp Ser Ser Pro Asn Ala Phe
 50 55 60
 Ser Thr Ser Gly Asp Val Val Ser Arg Asn Gln Ser Phe Leu Arg
 65 70 75
 Thr Pro Ile Gln Arg Thr Pro His Glu Ile Met Arg Arg Glu Ser
 80 85 90
 Asn Arg Leu Ser Ala Pro Ser Tyr Leu Ala Arg Ser Leu Ala Asp
 95 100 105
 Val Pro Arg Glu Tyr Gly Ser Ser Gln Ser Phe Val Thr Glu Val
 110 115 120
 Ser Phe Ala Val Glu Asn Gly Asp Ser Gly Ser Arg Tyr Tyr Tyr
 125 130 135
 Ser Asp Asn Phe Phe Asp Gly Gln Arg Lys Arg Pro Leu Gly Asp
 140 145 150
 Arg Ala His Glu Asp Tyr Arg Tyr Tyr Glu Tyr Asn His Asp Leu
 155 160 165
 Phe Gln Arg Met Pro Gln Asn Gln Gly Arg His Ala Ser Gly Ile
 170 175 180
 Gly Arg Val Ala Ala Thr Ser Leu Gly Asn Leu Thr Asn His Gly
 185 190 195
 Ser Glu Asp Leu Pro Leu Pro Pro Gly Trp Ser Val Asp Trp Thr
 200 205 210
 Met Arg Gly Arg Lys Tyr Tyr Ile Asp His Asn Thr Asn Thr Thr
 215 220 225
 His Trp Ser His Pro Leu Glu Arg Glu Gly Leu Pro Pro Gly Trp
 230 235 240
 Glu Arg Val Glu Ser Ser Glu Phe Gly Thr Tyr Tyr Val Asp His
 245 250 255
 Thr Asn Lys Lys Ala Gln Tyr Arg His Pro Cys Ala Pro Ser Val
 260 265 270
 Pro Arg Tyr Asp Gln Pro Pro Pro Val Thr Tyr Gln Pro Gln Gln
 275 280 285
 Thr Glu Arg Asn Gln Ser Leu Leu Val Pro Ala Asn Pro Tyr His
 290 295 300
 Thr Ala Glu Ile Pro Asp Trp Leu Gln Val Tyr Ala Arg Ala Pro
 305 310 315
 Val Lys Tyr Asp His Ile Leu Lys Trp Glu Leu Phe Gln Leu Ala
 320 325 330
 Asp Leu Asp Thr Tyr Gln Gly Met Leu Lys Leu Leu Phe Met Lys
 335 340 345
 Glu Leu Glu Gln Ile Val Lys Met Tyr Glu Ala Tyr Arg Gln Ala
 350 355 360
 Leu Leu Thr Glu Leu Glu Asn Arg Lys Gln Arg Gln Gln Trp Tyr
 365 370 375
 Ala Gln Gln His Gly Lys Asn Phe
 380

<210> 31
 <211> 478
 <212> PRT
 <213> Homo sapiens

WO 00/77040

PCT/US00/16636

<220>

<221> misc_feature

<223> Incyte ID No: 431871CD1

<400> 31

Met	Asp	Thr	Ser	Asp	Leu	Phe	Ala	Ser	Cys	Arg	Lys	Gly	Asp	Val
1				5					10					15
Gly	Arg	Val	Arg	Tyr	Leu	Leu	Glu	Gln	Arg	Asp	Val	Glu	Val	Asn
				20					25					30
Val	Arg	Asp	Lys	Trp	Asp	Ser	Thr	Pro	Leu	Tyr	Tyr	Ala	Cys	Leu
				35					40					45
Cys	Gly	His	Glu	Glu	Leu	Val	Leu	Tyr	Leu	Leu	Ala	Asn	Gly	Ala
				50					55					60
Arg	Cys	Glu	Ala	Asn	Thr	Phe	Asp	Gly	Glu	Arg	Cys	Leu	Tyr	Gly
				65					70					75
Ala	Leu	Ser	Asp	Pro	Ile	Arg	Arg	Ala	Leu	Arg	Asp	Tyr	Lys	Gln
				80					85					90
Val	Thr	Ala	Ser	Cys	Arg	Arg	Arg	Asp	Tyr	Tyr	Asp	Asp	Phe	Leu
				95					100					105
Gln	Arg	Leu	Leu	Glu	Gln	Gly	Ile	His	Ser	Asp	Val	Val	Phe	Val
				110					115					120
Val	His	Gly	Lys	Pro	Phe	Arg	Val	His	Arg	Cys	Val	Leu	Gly	Ala
				125					130					135
Arg	Ser	Ala	Tyr	Phe	Ala	Asn	Met	Leu	Asp	Thr	Lys	Trp	Lys	Gly
				140					145					150
Lys	Ser	Val	Val	Val	Leu	Arg	His	Pro	Leu	Ile	Asn	Pro	Val	Ala
				155					160					165
Phe	Gly	Ala	Leu	Leu	Gln	Tyr	Leu	Tyr	Thr	Gly	Arg	Leu	Asp	Ile
				170					175					180
Gly	Val	Glu	His	Val	Ser	Asp	Cys	Glu	Arg	Leu	Ala	Lys	Gln	Cys
				185					190					195
Gln	Leu	Trp	Asp	Leu	Leu	Ser	Asp	Leu	Glu	Ala	Lys	Cys	Glu	Lys
				200					205					210
Val	Ser	Glu	Phe	Val	Ala	Ser	Lys	Pro	Gly	Thr	Cys	Val	Lys	Val
				215					220					225
Leu	Thr	Ile	Glu	Pro	Pro	Pro	Ala	Asp	Pro	Arg	Leu	Arg	Glu	Asp
				230					235					240
Met	Ala	Leu	Leu	Ala	Asp	Cys	Ala	Leu	Pro	Pro	Glu	Leu	Arg	Gly
				245					250					255
Asp	Leu	Trp	Glu	Leu	Pro	Phe	Pro	Cys	Pro	Asp	Gly	Phe	Asn	Ser
				260					265					270
Cys	Pro	Asp	Ile	Cys	Phe	Arg	Val	Ala	Gly	Cys	Ser	Phe	Leu	Cys
				275					280					285
His	Lys	Ala	Phe	Phe	Cys	Gly	Arg	Ser	Asp	Tyr	Phe	Arg	Ala	Leu
				290					295					300
Leu	Asp	Asp	His	Phe	Arg	Glu	Ser	Glu	Glu	Pro	Ala	Thr	Ser	Gly
				305					310					315
Gly	Pro	Pro	Ala	Val	Thr	Leu	His	Gly	Ile	Ser	Pro	Asp	Val	Phe
				320					325					330
Thr	His	Val	Leu	Tyr	Tyr	Met	Tyr	Ser	Asp	His	Thr	Glu	Leu	Ser
				335					340					345
Pro	Glu	Ala	Ala	Tyr	Asp	Val	Leu	Ser	Val	Ala	Asp	Met	Tyr	Leu
				350					355					360
Leu	Pro	Gly	Leu	Lys	Arg	Leu	Cys	Gly	Arg	Ser	Leu	Ala	Gln	Met
				365					370					375
Leu	Asp	Glu	Asp	Thr	Val	Val	Gly	Val	Trp	Arg	Val	Ala	Lys	Leu
				380					385					390
Phe	Arg	Leu	Ala	Arg	Leu	Glu	Asp	Gln	Cys	Thr	Glu	Tyr	Met	Ala
				395					400					405
Lys	Val	Ile	Glu	Lys	Leu	Val	Glu	Arg	Glu	Asp	Phe	Val	Glu	Ala
				410					415					420
Val	Lys	Glu	Glu	Ala	Ala	Ala	Val	Ala	Ala	Arg	Gln	Glu	Thr	Asp
				425					430					435
Ser	Ile	Pro	Leu	Val	Asp	Asp	Ile	Arg	Phe	His	Val	Ala	Ser	Thr
				440					445					450
Val	Gln	Thr	Tyr	Ser	Ala	Ile	Glu	Glu	Ala	Gln	Gln	Arg	Leu	Arg
				455					460					465

WO 00/77040

PCT/US00/16636

35	40	45
Val Trp Glu Gly Leu Trp Met Ser Cys	Val Val Gln Ser Thr Gly	
50	55	60
Gln Met Gln Cys Lys Val Tyr Asp Ser	Leu Leu Ala Leu Pro Gln	
65	70	75
Asp Leu Gln Ala Ala Arg Ala Leu Cys	Val Ile Ala Leu Leu Leu	
80	85	90
Ala Leu Leu Gly Leu Leu Val Ala Ile	Thr Gly Ala Gln Cys Thr	
95	100	105
Thr Cys Val Glu Asp Glu Gly Ala Lys	Ala Arg Ile Val Leu Thr	
110	115	120
Ala Gly Val Ile Leu Leu Leu Ala Gly	Ile Leu Val Leu Ile Pro	
125	130	135
Val Cys Trp Thr Ala His Ala Ile Ile	Gln Asp Phe Tyr Asn Pro	
140	145	150
Leu Val Ala Glu Ala Leu Lys Arg Glu	Leu Gly Ala Ser Leu Tyr	
155	160	165
Leu Gly Trp Ala Ala Ala Leu Leu Met	Leu Gly Gly Gly Leu	
170	175	180
Leu Cys Cys Thr Cys Pro Pro Pro Gln	Val Glu Arg Pro Arg Gly	
185	190	195
Pro Arg Leu Gly Tyr Ser Ile Pro Ser	Arg Ser Gly Ala Ser Gly	
200	205	210
Leu Asp Lys Arg Asp Tyr Val		
215		

<210> 34

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 720145CD1

<400> 34

Met Asp Asp Tyr Thr Ser Ala Ile Glu Val	Gln Pro Asn Phe Glu
1 5	10 15
Val Pro Tyr Tyr Asn Arg Gly Leu Ile Leu	Tyr Arg Leu Gly Tyr
20 25	30
Phe Asp Asp Ala Leu Glu Asp Phe Lys Lys	Val Leu Asp Leu Asn
35 40	45
Pro Gly Phe Gln Asp Ala Thr Leu Ser Leu	Lys Gln Thr Ile Leu
50 55	60
Asp Lys Glu Glu Lys Gln Arg Arg Asn Val	Ala Lys Asn Tyr
65 70	

<210> 35

<211> 367

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1001951CD1

<400> 35

Met Val Gln Gln Phe Leu Arg Gln Ala Gln	Arg Gly Thr Glu Glu
1 5	10 15
Lys Glu Arg Glu Gly Ala Leu Val Ser Leu	Arg Arg Gly Leu Gln
20 25	30
His Pro Glu Thr Gln Gln Thr Phe Ile Arg	Ser Cys Val Cys Ile
35 40	45
His Trp Val Thr Leu Ile Val Glu Ser Glu	Ala Val Arg Arg Gln
50 55	60
Leu Leu Pro Gln Gly Ile Val Pro Ala Leu	Ala Ala Cys Ile Gln
65 70	75
Ser Pro His Val Ala Val Leu Glu Ala Leu	Gly Tyr Ala Leu Ser
80 85	90

WO 00/77040

PCT/US00/16636

Gln Leu Leu Gln Ala Glu Glu Ala Pro Glu Lys Ile Ile Pro Ser
 95 100
 Ile Leu Ala Ser Thr Leu Pro Gln His Met Leu Gln Met Leu Gln
 110 115
 Pro Gly Pro Lys Leu Asn Pro Gly Val Ala Val Glu Phe Ala Trp
 125 130
 Cys Leu His Tyr Ile Ile Cys Ser Gln Val Ser Asn Pro Leu Leu
 140 145
 Ile Gly His Gly Ala Leu Ser Thr Leu Gly Leu Leu Leu Leu Asp
 155 160
 Leu Ala Gly Ala Val Gln Lys Thr Glu Asp Ala Gly Leu Glu Leu
 170 175
 Leu Ala Cys Pro Val Leu Arg Cys Leu Ser Asn Leu Leu Thr Glu
 185 190
 Ala Ala Val Glu Thr Val Gly Gly Gln Met Gln Leu Arg Asp Glu
 200 205
 Arg Val Val Ala Ala Leu Phe Ile Leu Leu Gln Phe Phe Phe Gln
 215 220
 Lys Gln Pro Ser Leu Leu Pro Glu Gly Leu Trp Leu Leu Asn Asn
 230 235
 Leu Thr Ala Asn Ser Pro Ser Phe Cys Thr Ser Leu Leu Ser Leu
 245 250
 Asp Leu Ile Glu Pro Leu Leu Gln Leu Leu Pro Val Ser Asn Val
 260 265
 Val Ser Val Met Val Leu Thr Val Leu Cys Asn Val Ala Glu Lys
 275 280
 Gly Pro Ala Tyr Cys Gln Arg Leu Trp Pro Gly Pro Leu Leu Pro
 290 295
 Ala Leu Leu His Thr Leu Ala Phe Ser Asp Thr Glu Val Val Gly
 305 310
 Gln Ser Leu Glu Leu Leu His Leu Leu Phe Leu Tyr Gln Pro Glu
 320 325
 Ala Val Gln Val Phe Leu Gln Gln Ser Gly Leu Gln Ala Trp Lys
 335 340
 Arg His Gln Glu Glu Ala Gln Leu Gln Asp Arg Val Tyr Ala Leu
 350 355
 Gln Gln Thr Ala Leu Gln Gly
 365

<210> 36

<211> 1113

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1243349CD1

<400> 36

Met Ile Ala Val Ser Phe Lys Cys Arg Cys Gln Ile Leu Arg Arg
 1 5 10 15
 Leu Thr Lys Asp Glu Ser Pro Tyr Thr Lys Ser Ala Ser Gln Thr
 20 25 30
 Lys Pro Pro Asp Gly Ala Leu Ala Val Arg Arg Gln Ser Ile Pro
 35 40 45
 Glu Glu Phe Lys Gly Ser Thr Val Val Glu Leu Met Lys Lys Glu
 50 55 60
 Gly Thr Thr Leu Gly Leu Thr Val Ser Gly Gly Ile Asp Lys Asp
 65 70 75
 Gly Lys Pro Arg Val Ser Asn Leu Arg Gln Gly Gly Ile Ala Ala
 80 85 90
 Arg Ser Asp Gln Leu Asp Val Gly Asp Tyr Ile Lys Ala Val Asn
 95 100 105
 Gly Ile Asn Leu Ala Lys Phe Arg His Asp Glu Ile Ile Ser Leu
 110 115 120
 Leu Lys Asn Val Gly Glu Arg Val Val Leu Glu Val Glu Tyr Glu
 125 130 135
 Leu Pro Pro Val Ser Val Gln Gly Ser Ser Val Ile Phe Arg Thr

WO 00/77040

PCT/US00/16636

Val	Glu	Val	Thr	140	Leu	His	Lys	Glu	Gly	145	Asn	Thr	Phe	Gly	Phe	Val	150
Ile	Arg	Gly	Gly	155	Ala	His	Asp	Asp	Arg	160	Asn	Lys	Ser	Arg	Pro	Val	165
Val	Ile	Thr	Cys	170	Val	Arg	Pro	Gly	Gly	175	Pro	Ala	Asp	Arg	Glu	Gly	180
Thr	Ile	Lys	Pro	185	Gly	Asp	Arg	Leu	Leu	190	Ser	Val	Asp	Gly	Ile	Arg	195
Leu	Leu	Gly	Thr	200	Thr	His	Ala	Glu	Ala	205	Met	Ser	Ile	Leu	Lys	Gln	210
Cys	Gly	Gln	Glu	215	Ala	Ala	Leu	Leu	Ile	220	Glu	Tyr	Asp	Val	Ser	Val	225
Met	Asp	Ser	Val	230	Ala	Thr	Ala	Ser	Gly	235	Pro	Leu	Leu	Val	Glu	Val	240
Ala	Lys	Thr	Pro	245	Gly	Ala	Ser	Leu	Gly	250	Val	Ala	Leu	Thr	Thr	Ser	255
Met	Cys	Cys	Asn	260	Lys	Gln	Val	Ile	Val	265	Ile	Asp	Lys	Ile	Lys	Ser	270
Ala	Ser	Ile	Ala	275	Asp	Arg	Cys	Gly	Ala	280	Leu	His	Val	Gly	Asp	His	285
Ile	Leu	Ser	Ile	290	Asp	Gly	Thr	Ser	Met	295	Glu	Tyr	Cys	Thr	Leu	Ala	300
Glu	Ala	Thr	Gln	305	Phe	Leu	Ala	Asn	Thr	310	Thr	Asp	Gln	Val	Lys	Leu	315
Glu	Ile	Leu	Pro	320	His	His	Gln	Thr	Arg	325	Leu	Ala	Leu	Lys	Gly	Pro	330
Asp	His	Val	Lys	335	Ile	Gln	Arg	Ser	Asp	340	Arg	Gln	Leu	Thr	Trp	Asp	345
Ser	Trp	Ala	Ser	350	Asn	His	Ser	Ser	Leu	355	His	Thr	Asn	His	His	Tyr	360
Asn	Thr	Tyr	His	365	Pro	Asp	His	Cys	Arg	370	Val	Pro	Ala	Leu	Thr	Phe	375
Pro	Lys	Ala	Pro	380	Pro	Pro	Asn	Ser	Pro	385	Pro	Ala	Leu	Val	Ser	Ser	390
Ser	Phe	Ser	Pro	395	Thr	Ser	Met	Ser	Ala	400	Ser	Ser	Leu	Ser	Ser	Leu	405
Asn	Met	Gly	Thr	410	Leu	Pro	Arg	Ser	Leu	415	Tyr	Ser	Thr	Ser	Pro	Arg	420
Gly	Thr	Met	Met	425	Arg	Arg	Arg	Leu	Lys	430	Lys	Lys	Asp	Phe	Lys	Ser	435
Ser	Leu	Ser	Leu	440	Ala	Ser	Ser	Thr	Val	445	Gly	Leu	Ala	Gly	Gln	Val	450
Val	His	Thr	Glu	455	Thr	Thr	Glu	Val	Val	460	Leu	Thr	Ala	Asp	Pro	Val	465
Thr	Gly	Phe	Gly	470	Ile	Gln	Leu	Gln	Gly	475	Ser	Val	Phe	Ala	Thr	Glu	480
Thr	Leu	Ser	Ser	485	Pro	Pro	Leu	Ile	Ser	490	Tyr	Ile	Glu	Ala	Asp	Ser	495
Pro	Ala	Glu	Arg	500	Cys	Gly	Val	Leu	Gln	505	Ile	Gly	Asp	Arg	Val	Met	510
Ala	Ile	Asn	Gly	515	Ile	Pro	Thr	Glu	Asp	520	Ser	Thr	Phe	Glu	Glu	Ala	525
Ser	Gln	Leu	Leu	530	Arg	Asp	Ser	Ser	Ile	535	Thr	Ser	Lys	Val	Thr	Leu	540
Glu	Ile	Glu	Phe	545	Asp	Val	Ala	Glu	Ser	550	Val	Ile	Pro	Ser	Ser	Gly	555
Thr	Phe	His	Val	560	Lys	Leu	Pro	Lys	Lys	565	His	Asn	Val	Glu	Leu	Gly	570
Ile	Thr	Ile	Ser	575	Ser	Pro	Ser	Ser	Arg	580	Lys	Pro	Gly	Asp	Pro	Leu	585
Val	Ile	Ser	Asp	590	Ile	Lys	Lys	Gly	Ser	595	Val	Ala	His	Arg	Thr	Gly	600
Thr	Leu	Glu	Leu	605	Gly	Asp	Lys	Leu	Leu	610	Ala	Ile	Asp	Asn	Ile	Arg	615
Leu	Asp	Asn	Cys	620	Ser	Met	Glu	Asp	Ala	625	Val	Gln	Ile	Leu	Gln	Gln	630
				635						640							645

WO 00/77040

PCT/US00/16636

Cys	Glu	Asp	Leu	Val	Lys	Leu	Lys	Ile	Arg	Lys	Asp	Glu	Asp	Asn
				650					655					660
Ser	Asp	Glu	Gln	Glu	Ser	Ser	Gly	Ala	Ile	Ile	Tyr	Thr	Val	Glu
				665					670					675
Leu	Lys	Arg	Tyr	Gly	Gly	Pro	Leu	Gly	Ile	Thr	Ile	Ser	Gly	Thr
				680					685					690
Glu	Glu	Pro	Phe	Asp	Pro	Ile	Ile	Ile	Ser	Ser	Leu	Thr	Lys	Gly
				695					700					705
Gly	Leu	Ala	Glu	Arg	Thr	Gly	Ala	Ile	His	Ile	Gly	Asp	Arg	Ile
				710					715					720
Leu	Ala	Ile	Asn	Ser	Ser	Ser	Leu	Lys	Gly	Lys	Pro	Leu	Ser	Glu
				725					730					735
Ala	Ile	His	Leu	Leu	Gln	Met	Ala	Gly	Glu	Thr	Val	Thr	Leu	Lys
				740					745					750
Ile	Lys	Lys	Gln	Thr	Asp	Ala	Gln	Ser	Ala	Ser	Ser	Pro	Lys	Lys
				755					760					765
Phe	Pro	Ile	Ser	Ser	His	Leu	Ser	Asp	Leu	Gly	Asp	Val	Glu	Glu
				770					775					780
Asp	Ser	Ser	Pro	Ala	Gln	Lys	Pro	Gly	Lys	Leu	Ser	Asp	Met	Tyr
				785					790					795
Pro	Ser	Thr	Val	Pro	Ser	Val	Asp	Ser	Ala	Val	Asp	Ser	Trp	Asp
				800					805					810
Gly	Ser	Ala	Ile	Asp	Thr	Ser	Tyr	Gly	Thr	Glu	Gly	Thr	Ser	Phe
				815					820					825
Gln	Ala	Ser	Gly	Tyr	Asn	Phe	Asn	Thr	Tyr	Asp	Trp	Arg	Ser	Pro
				830					835					840
Lys	Gln	Arg	Gly	Ser	Leu	Ser	Pro	Val	Thr	Lys	Pro	Arg	Ser	Gln
				845					850					855
Thr	Tyr	Pro	Asp	Val	Gly	Leu	Ser	Tyr	Glu	Asp	Trp	Asp	Arg	Ser
				860					865					870
Thr	Ala	Ser	Gly	Phe	Ala	Gly	Ala	Ala	Asp	Ser	Ala	Glu	Thr	Glu
				875					880					885
Gln	Glu	Glu	Asn	Phe	Trp	Ser	Gln	Ala	Leu	Glu	Asp	Leu	Glu	Thr
				890					895					900
Cys	Gly	Gln	Ser	Gly	Ile	Leu	Arg	Glu	Leu	Glu	Ala	Thr	Ile	Met
				905					910					915
Ser	Gly	Ser	Thr	Met	Ser	Leu	Asn	His	Glu	Ala	Pro	Thr	Pro	Arg
				920					925					930
Ser	Gln	Leu	Gly	Arg	Gln	Ala	Ser	Phe	Gln	Glu	Arg	Ser	Ser	Ser
				935					940					945
Arg	Pro	His	Tyr	Ser	Gln	Thr	Thr	Arg	Ser	Asn	Thr	Leu	Pro	Ser
				950					955					960
Asp	Val	Gly	Arg	Lys	Ser	Val	Thr	Leu	Arg	Lys	Met	Lys	Gln	Glu
				965					970					975
Ile	Lys	Glu	Ile	Met	Ser	Pro	Thr	Pro	Val	Glu	Leu	His	Lys	Val
				980					985					990
Thr	Leu	Tyr	Lys	Asp	Ser	Asp	Met	Glu	Asp	Phe	Gly	Phe	Ser	Val
				995					1000					1005
Ala	Asp	Gly	Leu	Leu	Glu	Lys	Gly	Val	Tyr	Val	Lys	Asn	Ile	Arg
				1010					1015					1020
Pro	Ala	Gly	Pro	Gly	Asp	Leu	Gly	Gly	Leu	Lys	Pro	Tyr	Asp	Arg
				1025					1030					1035
Leu	Leu	Gln	Val	Asn	His	Val	Arg	Thr	Arg	Asp	Phe	Asp	Cys	Cys
				1040					1045					1050
Leu	Val	Val	Pro	Leu	Ile	Ala	Glu	Ser	Gly	Asn	Lys	Leu	Asp	Leu
				1055					1060					1065
Val	Ile	Ser	Arg	Asn	Pro	Leu	Ala	Ser	Gln	Lys	Ser	Ile	Asp	Gln
				1070					1075					1080
Gln	Ser	Leu	Pro	Gly	Asp	Trp	Ser	Glu	Gln	Asn	Ser	Ala	Phe	Phe
				1085					1090					1095
Gln	Gln	Pro	Ser	His	Gly	Gly	Asn	Leu	Glu	Thr	Arg	Glu	Pro	Thr
				1100					1105					1110
Asn	Thr	Leu												

<210> 37
 <211> 511
 <212> PRT

WO 00/77040

PCT/US00/16636

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1338201CD1

<400> 37

Met	Ser	Arg	Gly	Pro	Glu	Glu	Val	Asn	Arg	Leu	Thr	Glu	Ser	Thr
1				5					10					15
Tyr	Arg	Asn	Val	Met	Glu	Gln	Phe	Asn	Pro	Gly	Leu	Arg	Asn	Leu
				20					25					30
Ile	Asn	Leu	Gly	Lys	Asn	Tyr	Glu	Lys	Ala	Val	Asn	Ala	Met	Ile
				35					40					45
Leu	Ala	Gly	Lys	Ala	Tyr	Tyr	Asp	Gly	Val	Ala	Lys	Ile	Gly	Glu
				50					55					60
Ile	Ala	Thr	Gly	Ser	Pro	Val	Ser	Thr	Glu	Leu	Gly	His	Val	Leu
				65					70					75
Ile	Glu	Ile	Ser	Ser	Thr	His	Lys	Lys	Leu	Asn	Glu	Ser	Leu	Asp
				80					85					90
Glu	Asn	Phe	Lys	Lys	Phe	His	Lys	Glu	Ile	Ile	His	Glu	Leu	Glu
				95					100					105
Lys	Lys	Ile	Glu	Leu	Asp	Val	Lys	Tyr	Met	Asn	Ala	Thr	Leu	Lys
				110					115					120
Arg	Tyr	Gln	Thr	Glu	His	Lys	Asn	Lys	Leu	Glu	Ser	Leu	Glu	Lys
				125					130					135
Ser	Gln	Ala	Glu	Leu	Lys	Lys	Ile	Arg	Arg	Lys	Ser	Gln	Gly	Ser
				140					145					150
Arg	Asn	Ala	Leu	Lys	Tyr	Glu	His	Lys	Glu	Ile	Glu	Tyr	Val	Glu
				155					160					165
Thr	Val	Thr	Ser	Arg	Gln	Ser	Glu	Ile	Gln	Lys	Phe	Ile	Ala	Asp
				170					175					180
Gly	Cys	Lys	Glu	Ala	Leu	Leu	Glu	Glu	Lys	Arg	Arg	Phe	Cys	Phe
				185					190					195
Leu	Val	Asp	Lys	His	Cys	Gly	Phe	Ala	Asn	His	Ile	His	Tyr	Tyr
				200					205					210
His	Leu	Gln	Ser	Ala	Glu	Leu	Leu	Asn	Ser	Lys	Leu	Pro	Arg	Trp
				215					220					225
Gln	Glu	Thr	Cys	Val	Asp	Ala	Ile	Lys	Val	Pro	Glu	Lys	Ile	Met
				230					235					240
Asn	Met	Ile	Glu	Glu	Ile	Lys	Thr	Pro	Ala	Ser	Thr	Pro	Val	Ser
				245					250					255
Gly	Thr	Pro	Gln	Ala	Ser	Pro	Met	Ile	Glu	Arg	Ser	Asn	Val	Val
				260					265					270
Arg	Lys	Asp	Tyr	Asp	Thr	Leu	Ser	Lys	Cys	Ser	Pro	Lys	Met	Pro
				275					280					285
Pro	Ala	Pro	Ser	Gly	Arg	Ala	Tyr	Thr	Ser	Pro	Leu	Ile	Asp	Met
				290					295					300
Phe	Asn	Asn	Pro	Ala	Thr	Ala	Ala	Pro	Asn	Ser	Gln	Arg	Val	Asn
				305					310					315
Asn	Ser	Thr	Gly	Thr	Ser	Glu	Asp	Pro	Ser	Leu	Gln	Arg	Ser	Val
				320					325					330
Ser	Val	Ala	Thr	Gly	Leu	Asn	Met	Met	Lys	Lys	Gln	Lys	Val	Lys
				335					340					345
Thr	Ile	Phe	Pro	His	Thr	Ala	Gly	Ser	Asn	Lys	Thr	Leu	Leu	Ser
				350					355					360
Phe	Ala	Gln	Gly	Asp	Val	Ile	Thr	Leu	Leu	Ile	Pro	Glu	Glu	Lys
				365					370					375
Asp	Gly	Trp	Leu	Tyr	Gly	Glu	His	Asp	Val	Ser	Lys	Ala	Arg	Gly
				380					385					390
Trp	Phe	Pro	Ser	Ser	Tyr	Thr	Lys	Leu	Leu	Glu	Glu	Asn	Glu	Thr
				395					400					405
Glu	Ala	Val	Thr	Val	Pro	Thr	Pro	Ser	Pro	Thr	Pro	Val	Arg	Ser
				410					415					420
Ile	Ser	Thr	Val	Asn	Leu	Ser	Glu	Asn	Ser	Ser	Val	Val	Ile	Pro
				425					430					435
Pro	Pro	Asp	Tyr	Leu	Glu	Cys	Leu	Ser	Met	Gly	Ala	Ala	Ala	Asp
				440					445					450

WO 00/77040

PCT/US00/16636

Arg	Arg	Ala	Asp	Ser	Ala	Arg	Thr	Thr	Ser	Thr	Phe	Lys	Ala	Pro
				455					460					465
Ala	Ser	Lys	Pro	Glu	Thr	Ala	Ala	Pro	Asn	Asp	Ala	Asn	Gly	Thr
				470					475					480
Ala	Lys	Pro	Pro	Phe	Leu	Ser	Gly	Glu	Asn	Pro	Phe	Ala	Thr	Val
				485					490					495
Lys	Leu	Arg	Pro	Thr	Val	Thr	Asn	Asp	Arg	Ser	Ala	Pro	Ile	Ile
				500					505					510

Arg

<210> 38

<211> 1177

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1405141CD1

<400> 38

Met	Thr	Thr	Ile	Leu	Lys	Pro	Ser	Ala	Asp	Phe	Leu	Thr	Ser	Asn
1				5					10					15
Lys	Leu	Leu	Lys	Tyr	Ser	Trp	Phe	Phe	Phe	Asp	Val	Leu	Ile	Lys
				20					25					30
Ser	Met	Ala	Gln	His	Leu	Ile	Glu	Asn	Ser	Lys	Val	Lys	Leu	Leu
				35					40					45
Arg	Asn	Gln	Arg	Phe	Pro	Ala	Ser	Tyr	His	His	Ala	Val	Glu	Thr
				50					55					60
Val	Val	Asn	Met	Leu	Met	Pro	His	Ile	Thr	Gln	Lys	Phe	Arg	Asp
				65					70					75
Asn	Pro	Glu	Ala	Ser	Lys	Asn	Ala	Asn	His	Ser	Leu	Ala	Val	Phe
				80					85					90
Ile	Lys	Arg	Cys	Phe	Thr	Phe	Met	Asp	Arg	Gly	Phe	Val	Phe	Lys
				95					100					105
Gln	Ile	Asn	Asn	Tyr	Ile	Ser	Cys	Phe	Ala	Pro	Gly	Asp	Pro	Lys
				110					115					120
Thr	Leu	Phe	Glu	Tyr	Lys	Phe	Glu	Phe	Leu	Arg	Val	Val	Cys	Asn
				125					130					135
His	Glu	His	Tyr	Ile	Pro	Leu	Asn	Leu	Pro	Met	Pro	Phe	Gly	Lys
				140					145					150
Gly	Arg	Ile	Gln	Arg	Tyr	Gln	Asp	Leu	Gln	Leu	Asp	Tyr	Ser	Leu
				155					160					165
Thr	Asp	Glu	Phe	Cys	Arg	Asn	His	Phe	Leu	Val	Gly	Leu	Leu	Leu
				170					175					180
Arg	Glu	Val	Gly	Thr	Ala	Leu	Gln	Glu	Phe	Arg	Glu	Val	Arg	Leu
				185					190					195
Ile	Ala	Ile	Ser	Val	Leu	Lys	Asn	Leu	Leu	Ile	Lys	His	Ser	Phe
				200					205					210
Asp	Asp	Arg	Tyr	Ala	Ser	Arg	Ser	His	Gln	Ala	Arg	Ile	Ala	Thr
				215					220					225
Leu	Tyr	Leu	Pro	Leu	Phe	Gly	Leu	Leu	Ile	Glu	Asn	Val	Gln	Arg
				230					235					240
Ile	Asn	Val	Arg	Asp	Val	Ser	Pro	Phe	Pro	Val	Asn	Ala	Gly	Met
				245					250					255
Thr	Val	Lys	Asp	Glu	Ser	Leu	Ala	Leu	Pro	Ala	Val	Asn	Pro	Leu
				260					265					270
Val	Thr	Pro	Gln	Lys	Gly	Ser	Thr	Leu	Asp	Asn	Ser	Leu	His	Lys
				275					280					285
Asp	Leu	Leu	Gly	Ala	Ile	Ser	Gly	Ile	Ala	Ser	Pro	Tyr	Thr	Thr
				290					295					300
Ser	Thr	Pro	Asn	Ile	Asn	Ser	Val	Arg	Asn	Ala	Asp	Ser	Arg	Gly
				305					310					315
Ser	Leu	Ile	Ser	Thr	Asp	Ser	Gly	Asn	Ser	Leu	Pro	Glu	Arg	Asn
				320					325					330
Ser	Glu	Lys	Ser	Asn	Ser	Leu	Asp	Lys	His	Gln	Gln	Ser	Ser	Thr
				335					340					345
Leu	Gly	Asn	Ser	Val	Val	Arg	Cys	Asp	Lys	Leu	Asp	Gln	Ser	Glu

WO 00/77040

PCT/US00/16636

	350		355		360
Ile Lys Ser Leu	Leu Met Cys Phe Leu	Tyr Ile Leu Lys Ser	Met		
	365		370		375
Ser Asp Asp Ala	Leu Phe Thr Tyr Trp	Asn Lys Ala Ser Thr	Ser		
	380		385		390
Glu Leu Met Asp	Phe Phe Thr Ile Ser	Glu Val Cys Leu His	Gln		
	395		400		405
Phe Gln Tyr Met	Gly Lys Arg Tyr Ile	Ala Ser Val Arg Lys	Ile		
	410		415		420
Ser Ser Val Leu	Gly Ile Ser Val Asp	Asn Gly Tyr Gly His	Ser		
	425		430		435
Asp Ala Asp Val	Leu His Gln Ser Leu	Leu Glu Ala Asn Ile	Ala		
	440		445		450
Thr Glu Val Cys	Leu Thr Ala Leu Asp	Thr Leu Ser Leu Phe	Thr		
	455		460		465
Leu Ala Phe Lys	Asn Gln Leu Leu Ala	Asp His Gly His Asn	Pro		
	470		475		480
Leu Met Lys Lys	Val Phe Asp Val Tyr	Leu Cys Phe Leu Gln	Lys		
	485		490		495
His Gln Ser Glu	Thr Ala Leu Lys Asn	Val Phe Thr Ala Leu	Arg		
	500		505		510
Ser Leu Ile Tyr	Lys Phe Pro Ser Thr	Phe Tyr Glu Gly Arg	Ala		
	515		520		525
Asp Met Cys Ala	Ala Leu Cys Tyr Glu	Ile Leu Lys Cys Cys	Asn		
	530		535		540
Ser Lys Leu Ser	Ser Ile Arg Thr Glu	Ala Ser Gln Leu Leu	Tyr		
	545		550		555
Phe Leu Met Arg	Asn Asn Phe Asp Tyr	Thr Gly Lys Lys Ser	Phe		
	560		565		570
Val Arg Thr His	Leu Gln Val Ile Ile	Ser Val Ser Gln Leu	Ile		
	575		580		585
Ala Asp Val Val	Gly Ile Gly Gly Thr	Arg Phe Gln Gln Ser	Leu		
	590		595		600
Ser Ile Ile Asn	Asn Cys Ala Asn Ser	Asp Arg Leu Ile Lys	His		
	605		610		615
Thr Ser Phe Ser	Ser Asp Val Lys Asp	Leu Thr Lys Arg Ile	Arg		
	620		625		630
Thr Val Leu Met	Ala Thr Ala Gln Met	Lys Glu His Glu Asn	Asp		
	635		640		645
Pro Glu Met Leu	Val Asp Leu Gln Tyr	Ser Leu Ala Lys Ser	Tyr		
	650		655		660
Ala Ser Thr Pro	Glu Leu Arg Lys Thr	Trp Leu Asp Ser Met	Ala		
	665		670		675
Arg Ile His Val	Lys Asn Gly Asp Leu	Ser Glu Ala Ala Met	Cys		
	680		685		690
Tyr Val His Val	Thr Ala Leu Val Ala	Glu Tyr Leu Thr Arg	Lys		
	695		700		705
Gly Val Phe Arg	Gln Gly Cys Thr Ala	Phe Arg Val Ile Thr	Pro		
	710		715		720
Asn Ile Asp Glu	Glu Ala Ser Met Met	Glu Asp Val Gly Met	Gln		
	725		730		735
Asp Val His Phe	Asn Glu Asp Val Leu	Met Glu Leu Leu Glu	Gln		
	740		745		750
Cys Ala Asp Gly	Leu Trp Lys Ala Glu	Arg Tyr Glu Leu Ile	Ala		
	755		760		765
Asp Ile Tyr Lys	Leu Ile Ile Pro Ile	Tyr Glu Lys Arg Arg	Asp		
	770		775		780
Phe Glu Arg Leu	Ala His Leu Tyr Asp	Thr Leu His Arg Ala	Tyr		
	785		790		795
Ser Lys Val Thr	Glu Val Met His Ser	Gly Arg Ser Val Leu	Gly		
	800		805		810
Thr Tyr Phe Arg	Val Ala Phe Phe Gly	Gln Gly Phe Phe Glu	Asp		
	815		820		825
Glu Asp Gly Lys	Glu Tyr Ile Tyr Lys	Glu Pro Lys Leu Thr	Pro		
	830		835		840
Leu Ser Glu Ile	Ser Gln Arg Leu Leu	Lys Leu Tyr Ser Asp	Lys		
	845		850		855

WO 00/77040

PCT/US00/16636

Phe Gly Ser Glu Asn Val Lys Met Ile Gln Asp Ser Gly Lys Val
 860 865 870
 Asn Pro Lys Asp Leu Asp Ser Lys Tyr Ala Tyr Ile Gln Val Thr
 875 880 885
 His Val Ile Pro Phe Phe Asp Glu Lys Glu Leu Gln Glu Arg Lys
 890 895 900
 Thr Glu Phe Glu Arg Ser His Asn Ile Arg Arg Phe Met Phe Glu
 905 910 915
 Met Pro Phe Thr Gln Thr Gly Lys Arg Gln Gly Gly Val Glu Glu
 920 925 930
 Gln Cys Lys Arg Arg Thr Ile Leu Thr Ala Ile His Cys Phe Pro
 935 940 945
 Tyr Val Lys Lys Arg Ile Pro Val Met Tyr Gln His His Thr Asp
 950 955 960
 Leu Asn Pro Ile Glu Val Ala Ile Asp Glu Met Ser Lys Lys Val
 965 970 975
 Ala Glu Leu Arg Gln Leu Cys Ser Ser Ala Glu Val Asp Met Ile
 980 985 990
 Lys Leu Gln Leu Lys Leu Gln Gly Ser Val Ser Val Gln Val Asn
 995 1000 1005
 Ala Gly Pro Leu Ala Tyr Ala Arg Ala Phe Leu Asp Asp Thr Asn
 1010 1015 1020
 Thr Lys Arg Tyr Pro Asp Asn Lys Val Lys Leu Leu Lys Glu Val
 1025 1030 1035
 Phe Arg Gln Phe Val Glu Ala Cys Gly Gln Ala Leu Ala Val Asn
 1040 1045 1050
 Glu Arg Leu Ile Lys Glu Asp Gln Leu Glu Tyr Gln Glu Glu Met
 1055 1060 1065
 Lys Ala Asn Tyr Arg Glu Met Ala Lys Glu Leu Ser Glu Ile Met
 1070 1075 1080
 His Glu Gln Ile Cys Pro Leu Glu Asp Glu Asp Glu Arg Leu Thr
 1085 1090 1095
 Glu Phe Pro Ser His Leu Gln Arg His Gln Trp Asp Ser Asn Lys
 1100 1105 1110
 His Asn Gly Ser Arg Asp Asp Gln Leu Val Phe Gly Arg Val Ile
 1115 1120 1125
 Thr Ser His Gly Pro Cys Val Gly Thr Cys Phe Val Ile Cys Lys
 1130 1135 1140
 Leu Arg Met Leu Ser Lys Ala Asn His Trp Gly Asp Arg Ala Gln
 1145 1150 1155
 Gly Gly Pro Arg Gly Arg Gly Glu Lys Gly Asn Lys Glu Gln Arg
 1160 1165 1170
 Tyr Phe Leu Thr Asp Phe Leu
 1175

<210> 39

<211> 665

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1686305CD1

<400> 39

Met Thr Ser Ala Asn Lys Ala Ile Glu Leu Gln Leu Gln Val Lys
 1 5 10 15
 Gln Asn Ala Glu Glu Leu Gln Asp Phe Met Arg Asp Leu Glu Asn
 20 25 30
 Trp Glu Lys Asp Ile Lys Gln Lys Asp Met Glu Leu Arg Arg Gln
 35 40 45
 Asn Gly Val Pro Glu Glu Asn Leu Pro Pro Ile Arg Asn Gly Asn
 50 55 60
 Phe Arg Lys Lys Lys Lys Gly Lys Ala Lys Glu Ser Ser Lys Lys
 65 70 75
 Thr Arg Glu Glu Asn Thr Lys Asn Arg Ile Lys Ser Tyr Asp Tyr
 80 85 90
 Glu Ala Trp Ala Lys Leu Asp Val Asp Arg Ile Leu Asp Glu Leu

WO 00/77040

PCT/US00/16636

	95		100		105
Asp Lys Asp Asp	Ser Thr His Glu Ser	Leu Ser Gln Glu Ser	Glu		
	110		115		120
Ser Glu Glu Asp	Gly Ile His Val Asp	Ser Gln Lys Ala Leu	Val		
	125		130		135
Leu Lys Glu Lys	Gly Asn Lys Tyr Phe	Lys Gln Gly Lys Tyr	Asp		
	140		145		150
Glu Ala Ile Asp	Cys Tyr Thr Lys Gly	Met Asp Ala Asp Pro	Tyr		
	155		160		165
Asn Pro Val Leu	Pro Thr Asn Arg Ala	Ser Ala Tyr Phe Arg	Leu		
	170		175		180
Lys Lys Phe Ala	Val Ala Glu Ser Asp	Cys Asn Leu Ala Val	Ala		
	185		190		195
Leu Asn Arg Ser	Tyr Thr Lys Ala Tyr	Ser Arg Arg Gly Ala	Ala		
	200		205		210
Arg Phe Ala Leu	Gln Lys Leu Glu Glu	Ala Lys Lys Asp Tyr	Glu		
	215		220		225
Arg Val Leu Glu	Leu Glu Pro Asn Asn	Phe Glu Ala Thr Asn	Glu		
	230		235		240
Leu Arg Lys Ile	Ser Gln Ala Leu Ala	Ser Lys Glu Asn Ser	Tyr		
	245		250		255
Pro Lys Glu Ala	Asp Ile Val Ile Lys	Ser Thr Glu Gly Glu	Arg		
	260		265		270
Lys Gln Ile Glu	Ala Gln Gln Asn Lys	Gln Gln Ala Ile Ser	Glu		
	275		280		285
Lys Asp Arg Gly	Asn Gly Phe Phe Lys	Glu Gly Lys Tyr Glu	Arg		
	290		295		300
Ala Ile Glu Cys	Tyr Thr Arg Gly Ile	Ala Ala Asp Gly Ala	Asn		
	305		310		315
Ala Leu Leu Pro	Ala Asn Arg Ala Met	Ala Tyr Leu Lys Ile	Gln		
	320		325		330
Lys Tyr Glu Glu	Ala Glu Lys Asp Cys	Thr Gln Ala Ile Leu	Leu		
	335		340		345
Asp Gly Ser Tyr	Ser Lys Ala Phe Ala	Arg Arg Gly Thr Ala	Arg		
	350		355		360
Thr Phe Leu Gly	Lys Leu Asn Glu Ala	Lys Gln Asp Phe Glu	Thr		
	365		370		375
Val Leu Leu Leu	Glu Pro Gly Asn Lys	Gln Ala Val Thr Glu	Leu		
	380		385		390
Ser Lys Ile Lys	Lys Glu Leu Ile Glu	Lys Gly His Trp Asp	Asp		
	395		400		405
Val Phe Leu Asp	Ser Thr Gln Arg Gln	Asn Val Val Lys Pro	Ile		
	410		415		420
Asp Asn Pro Pro	His Pro Gly Ser Thr	Lys Pro Leu Lys Lys	Val		
	425		430		435
Ile Ile Glu Glu	Thr Gly Asn Leu Ile	Gln Thr Ile Asp Val	Pro		
	440		445		450
Asp Ser Thr Thr	Ala Ala Ala Pro Glu	Asn Asn Pro Ile Asn	Leu		
	455		460		465
Ala Asn Val Ile	Ala Ala Thr Gly Thr	Thr Ser Lys Lys Asn	Ser		
	470		475		480
Ser Gln Asp Asp	Leu Phe Pro Thr Ser	Asp Thr Pro Arg Ala	Lys		
	485		490		495
Val Leu Lys Ile	Glu Glu Val Ser Asp	Thr Ser Ser Leu Gln	Pro		
	500		505		510
Gln Ala Ser Leu	Lys Gln Asp Val Cys	Gln Ser Tyr Ser Glu	Lys		
	515		520		525
Met Pro Ile Glu	Ile Glu Gln Lys Pro	Ala Gln Phe Ala Thr	Thr		
	530		535		540
Val Leu Pro Pro	Ile Pro Ala Asn Ser	Phe Gln Leu Glu Ser	Asp		
	545		550		555
Phe Arg Gln Leu	Lys Ser Ser Pro Asp	Met Leu Tyr Gln Tyr	Leu		
	560		565		570
Lys Gln Ile Glu	Pro Ser Leu Tyr Pro	Lys Leu Phe Gln Lys	Asn		
	575		580		585
Leu Asp Pro Asp	Val Phe Asn Gln Ile	Val Lys Ile Leu His	Asp		
	590		595		600

WO 00/77040

PCT/US00/16636

Phe Tyr Ile Glu Lys Glu Lys Pro Leu Leu Ile Phe Glu Ile Leu
 605 610 615
 Gln Arg Leu Ser Glu Leu Lys Arg Phe Asp Met Ala Val Met Phe
 620 625 630
 Met Ser Glu Thr Glu Lys Lys Ile Ala Arg Ala Leu Phe Asn His
 635 640 645
 Ile Asp Lys Ser Gly Leu Lys Asp Ser Ser Val Glu Glu Leu Lys
 650 655 660
 Lys Arg Tyr Gly Gly
 665

<210> 40

<211> 125

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1688972CD1

<400> 40

Met Leu Asp Leu Gln Lys Gln Leu Gly Arg Phe Pro Gly Thr Phe
 1 5 10 15
 Val Gly Thr Thr Glu Pro Ala Ser Pro Pro Leu Ser Ser Thr Ser
 20 25 30
 Pro Thr Thr Ala Ala Ala Thr Met Pro Val Val Pro Ser Val Ala
 35 40 45
 Ser Leu Ala Pro Pro Gly Glu Ala Ser Leu Cys Leu Glu Glu Val
 50 55 60
 Ala Pro Pro Ala Ser Gly Thr Arg Lys Ala Arg Val Leu Tyr Asp
 65 70 75
 Tyr Glu Ala Ala Asp Ser Ser Glu Leu Ala Leu Leu Ala Asp Glu
 80 85 90
 Leu Ile Thr Val Tyr Ser Leu Pro Gly Met Asp Pro Asp Trp Leu
 95 100 105
 Ile Gly Glu Arg Gly Asn Lys Lys Gly Lys Val Pro Val Thr Tyr
 110 115 120
 Leu Glu Leu Leu Ser
 125

<210> 41

<211> 366

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1812494CD1

<400> 41

Met Cys Tyr Phe Tyr Leu Gly Asp Lys Ile Lys Thr Ile Ser Phe
 1 5 10 15
 Gln Ala Phe Ile Leu Met His Leu Leu Leu Pro Ser Glu Tyr Ser
 20 25 30
 Leu Asp Gly Phe His Met Ser Gly Phe Ser Leu Gly Ser Gly Ser
 35 40 45
 Glu Gly Glu Asp Gly Phe Gln Val Glu Leu Glu Leu Val Glu Leu
 50 55 60
 Thr Val Gly Thr Leu Asp Leu Cys Glu Ser Glu Val Leu Pro Lys
 65 70 75
 Arg Arg Arg Arg Lys Arg Asn Lys Lys Glu Lys Ser Arg Asp Gln
 80 85 90
 Glu Ala Gly Ala His Arg Thr Leu Leu Gln Gln Thr Gln Glu Glu
 95 100 105
 Glu Pro Ser Thr Gln Ser Ser Gln Ala Val Ala Ala Pro Leu Gly
 110 115 120
 Pro Leu Leu Asp Glu Ala Lys Ala Pro Gly Gln Pro Glu Leu Trp
 125 130 135
 Asn Ala Leu Leu Ala Ala Cys Arg Ala Gly Asp Val Gly Val Leu

WO 00/77040

PCT/US00/16636

Lys	Leu	Gln	Leu	Ala	Pro	Ser	Pro	Ala	Asp	Pro	Arg	Val	Leu	Ser	140	145	150
				155					160						165		
Leu	Leu	Ser	Ala	Pro	Leu	Gly	Ser	Gly	Gly	Phe	Thr	Leu	Leu	His			
				170					175					180			
Ala	Ala	Ala	Ala	Ala	Gly	Arg	Gly	Ser	Val	Val	Arg	Leu	Leu	Leu			
				185					190					195			
Glu	Ala	Gly	Ala	Asp	Pro	Thr	Val	Gln	Asp	Ser	Arg	Ala	Arg	Pro			
				200					205					210			
Pro	Tyr	Thr	Val	Ala	Ala	Asp	Lys	Ser	Thr	Arg	Asn	Glu	Phe	Arg			
				215					220					225			
Arg	Phe	Met	Glu	Lys	Asn	Pro	Asp	Ala	Tyr	Asp	Tyr	Asn	Lys	Ala			
				230					235					240			
Gln	Val	Pro	Gly	Pro	Leu	Thr	Pro	Glu	Met	Glu	Ala	Arg	Gln	Ala			
				245					250					255			
Thr	Arg	Lys	Arg	Glu	Gln	Lys	Ala	Ala	Arg	Arg	Gln	Arg	Glu	Glu			
				260					265					270			
Gln	Gln	Gln	Arg	Gln	Gln	Glu	Gln	Glu	Glu	Arg	Glu	Arg	Glu	Glu			
				275					280					285			
Gln	Arg	Arg	Phe	Ala	Ala	Leu	Ser	Asp	Arg	Glu	Lys	Arg	Ala	Leu			
				290					295					300			
Ala	Ala	Glu	Arg	Arg	Leu	Ala	Ala	Gln	Leu	Gly	Ala	Pro	Thr	Ser			
				305					310					315			
Pro	Ile	Pro	Asp	Ser	Ala	Ile	Val	Asn	Thr	Arg	Arg	Cys	Trp	Ser			
				320					325					330			
Cys	Gly	Ala	Ser	Leu	Gln	Gly	Leu	Thr	Pro	Phe	His	Tyr	Leu	Asp			
				335					340					345			
Phe	Ser	Phe	Cys	Ser	Thr	Arg	Cys	Leu	Gln	Asp	His	Arg	Arg	Gln			
				350					355					360			
Ala	Gly	Arg	Pro	Ser	Ser												
				365													

<210> 42

<211> 173

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2013853CD1

<400> 42

Met	Ser	Thr	Met	Gly	Asn	Glu	Ala	Ser	Tyr	Pro	Ala	Glu	Met	Cys			
1				5					10					15			
Ser	His	Phe	Asp	Asn	Asp	Glu	Ile	Lys	Arg	Leu	Gly	Arg	Arg	Phe			
				20					25					30			
Lys	Lys	Leu	Asp	Leu	Asp	Lys	Ser	Gly	Ser	Leu	Ser	Val	Glu	Glu			
				35					40					45			
Phe	Met	Ser	Leu	Pro	Glu	Leu	Arg	His	Asn	Pro	Leu	Val	Arg	Arg			
				50					55					60			
Val	Ile	Asp	Val	Phe	Asp	Thr	Asp	Gly	Asp	Gly	Glu	Val	Asp	Phe			
				65					70					75			
Lys	Glu	Phe	Ile	Leu	Gly	Thr	Ser	Gln	Phe	Ser	Val	Lys	Gly	Asp			
				80					85					90			
Glu	Glu	Gln	Lys	Leu	Arg	Phe	Ala	Phe	Ser	Ile	Tyr	Asp	Met	Asp			
				95					100					105			
Lys	Asp	Gly	Tyr	Ile	Ser	Asn	Gly	Glu	Leu	Phe	Gln	Val	Leu	Lys			
				110					115					120			
Met	Met	Val	Gly	Asn	Asn	Leu	Thr	Asp	Trp	Gln	Leu	Gln	Gln	Leu			
				125					130					135			
Val	Asp	Lys	Thr	Ile	Ile	Ile	Leu	Asp	Lys	Asp	Gly	Asp	Gly	Lys			
				140					145					150			
Ile	Ser	Phe	Glu	Glu	Phe	Ser	Ala	Val	Val	Arg	Asp	Leu	Glu	Ile			
				155					160					165			
His	Lys	Lys	Leu	Val	Leu	Ile	Val										
				170													

<210> 43

<211> 761

WO 00/77040

PCT/US00/16636

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2284925CD1

<400> 43

Met	Arg	Leu	Thr	Gln	Asp	Pro	Ile	Gln	Val	Leu	Leu	Ile	Phe	Ala
1				5					10					15
Lys	Glu	Asp	Ser	Gln	Ser	Asp	Gly	Phe	Trp	Trp	Ala	Cys	Asp	Arg
				20					25					30
Ala	Gly	Tyr	Arg	Cys	Asn	Ile	Ala	Arg	Thr	Pro	Glu	Ser	Ala	Leu
				35					40					45
Glu	Cys	Phe	Leu	Asp	Lys	His	His	Glu	Ile	Ile	Val	Ile	Asp	His
				50					55					60
Arg	Gln	Thr	Gln	Asn	Phe	Asp	Ala	Glu	Ala	Val	Cys	Arg	Ser	Ile
				65					70					75
Arg	Ala	Thr	Asn	Pro	Ser	Glu	His	Thr	Val	Ile	Leu	Ala	Val	Val
				80					85					90
Ser	Arg	Val	Ser	Asp	Asp	His	Glu	Glu	Ala	Ser	Val	Leu	Pro	Leu
				95					100					105
Leu	His	Ala	Gly	Phe	Asn	Arg	Arg	Phe	Met	Glu	Asn	Ser	Ser	Ile
				110					115					120
Ile	Ala	Cys	Tyr	Asn	Glu	Leu	Ile	Gln	Ile	Glu	His	Gly	Glu	Val
				125					130					135
Arg	Ser	Gln	Phe	Lys	Leu	Arg	Ala	Cys	Asn	Ser	Val	Phe	Thr	Ala
				140					145					150
Leu	Asp	His	Cys	His	Glu	Ala	Ile	Glu	Ile	Thr	Ser	Asp	Asp	His
				155					160					165
Val	Ile	Gln	Tyr	Val	Asn	Pro	Ala	Phe	Glu	Arg	Met	Met	Gly	Tyr
				170					175					180
His	Lys	Gly	Glu	Leu	Leu	Gly	Lys	Glu	Leu	Ala	Asp	Leu	Pro	Lys
				185					190					195
Ser	Asp	Lys	Asn	Arg	Ala	Asp	Leu	Leu	Asp	Thr	Ile	Asn	Thr	Cys
				200					205					210
Ile	Lys	Lys	Gly	Lys	Glu	Trp	Gln	Gly	Val	Tyr	Tyr	Ala	Arg	Arg
				215					220					225
Lys	Ser	Gly	Asp	Ser	Ile	Gln	Gln	His	Val	Lys	Ile	Thr	Pro	Val
				230					235					240
Ile	Gly	Gln	Gly	Gly	Lys	Ile	Arg	His	Phe	Val	Ser	Leu	Lys	Lys
				245					250					255
Leu	Cys	Cys	Thr	Thr	Asp	Asn	Asn	Lys	Gln	Ile	His	Lys	Ile	His
				260					265					270
Arg	Asp	Ser	Gly	Asp	Asn	Ser	Gln	Thr	Glu	Pro	His	Ser	Phe	Arg
				275					280					285
Tyr	Lys	Asn	Arg	Arg	Lys	Glu	Ser	Ile	Asp	Val	Lys	Ser	Ile	Ser
				290					295					300
Ser	Arg	Gly	Ser	Asp	Ala	Pro	Ser	Leu	Gln	Asn	Arg	Arg	Tyr	Pro
				305					310					315
Ser	Met	Ala	Arg	Ile	His	Ser	Met	Thr	Ile	Glu	Ala	Pro	Ile	Thr
				320					325					330
Lys	Val	Ile	Asn	Ile	Ile	Asn	Ala	Ala	Gln	Glu	Asn	Ser	Pro	Val
				335					340					345
Thr	Val	Ala	Glu	Ala	Leu	Asp	Arg	Val	Leu	Glu	Ile	Leu	Arg	Thr
				350					355					360
Thr	Glu	Leu	Tyr	Ser	Pro	Gln	Leu	Gly	Thr	Lys	Asp	Glu	Asp	Pro
				365					370					375
His	Thr	Ser	Asp	Leu	Val	Gly	Gly	Leu	Met	Thr	Asp	Gly	Leu	Arg
				380					385					390
Arg	Leu	Ser	Gly	Asn	Glu	Tyr	Val	Phe	Thr	Lys	Asn	Val	His	Gln
				395					400					405
Ser	His	Ser	His	Leu	Ala	Met	Pro	Ile	Thr	Ile	Asn	Asp	Val	Pro
				410					415					420
Pro	Cys	Ile	Ser	Gln	Leu	Leu	Asp	Asn	Glu	Glu	Ser	Trp	Asp	Phe
				425					430					435
Asn	Ile	Phe	Glu	Leu	Glu	Ala	Ile	Thr	His	Lys	Arg	Pro	Leu	Val

WO 00/77040

PCT/US00/16636

	440		445		450
Tyr Leu Gly Leu	Lys Val Phe Ser Arg	Phe Gly Val Cys Glu	Phe		
	455		460		465
Leu Asn Cys Ser	Glu Thr Thr Leu Arg	Ala Trp Phe Gln Val	Ile		
	470		475		480
Glu Ala Asn Tyr	His Ser Ser Asn Ala	Tyr His Asn Ser Thr	His		
	485		490		495
Ala Ala Asp Val	Leu His Ala Thr Ala	Phe Phe Leu Gly Lys	Glu		
	500		505		510
Arg Val Lys Gly	Ser Leu Asp Gln Leu	Asp Glu Val Ala Ala	Leu		
	515		520		525
Ile Ala Ala Thr	Val His Asp Val Asp	His Pro Gly Arg Thr	Asn		
	530		535		540
Ser Phe Leu Cys	Asn Ala Gly Ser Glu	Leu Ala Val Leu Tyr	Asn		
	545		550		555
Asp Thr Ala Val	Leu Glu Ser His His	Thr Ala Leu Ala Phe	Gln		
	560		565		570
Leu Thr Val Lys	Asp Thr Lys Cys Asn	Ile Phe Lys Asn Ile	Asp		
	575		580		585
Arg Asn His Tyr	Arg Thr Leu Arg Gln	Ala Ile Ile Asp Met	Val		
	590		595		600
Leu Ala Thr Glu	Met Thr Lys His Phe	Glu His Val Asn Lys	Phe		
	605		610		615
Val Asn Ser Ile	Asn Lys Pro Met Ala	Ala Glu Ile Glu Gly	Ser		
	620		625		630
Asp Cys Glu Cys	Asn Pro Ala Gly Lys	Asn Phe Pro Glu Asn	Gln		
	635		640		645
Ile Leu Ile Lys	Arg Met Met Ile Lys	Cys Ala Asp Val Ala	Asn		
	650		655		660
Pro Cys Arg Pro	Leu Asp Leu Cys Ile	Glu Trp Ala Gly Arg	Ile		
	665		670		675
Ser Glu Glu Tyr	Phe Ala Gln Thr Asp	Glu Glu Lys Arg Gln	Gly		
	680		685		690
Leu Pro Val Val	Met Pro Val Phe Asp	Arg Asn Thr Cys Ser	Ile		
	695		700		705
Pro Lys Ser Gln	Ile Ser Phe Ile Asp	Tyr Phe Ile Thr Asp	Met		
	710		715		720
Phe Asp Ala Trp	Asp Ala Phe Ala His	Leu Pro Ala Leu Met	Gln		
	725		730		735
His Leu Ala Asp	Asn Tyr Lys His Trp	Lys Thr Leu Asp Asp	Leu		
	740		745		750
Lys Cys Lys Ser	Leu Arg Leu Pro Ser	Asp Ser			
	755		760		

<210> 44

<211> 249

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2376728CD1

<400> 44

Met Val Asp Arg	Leu Ala Asn Ser Glu	Ala Asn Thr Arg Arg	Ile
1	5	10	15
Ser Ile Val Glu	Asn Cys Phe Gly Ala	Ala Gly Gln Pro Leu	Thr
	20	25	30
Ile Pro Gly Arg	Val Leu Ile Gly Glu	Gly Val Leu Thr Lys	Leu
	35	40	45
Cys Arg Lys Lys	Pro Lys Ala Arg Gln	Phe Phe Leu Phe Asn	Asp
	50	55	60
Ile Leu Val Tyr	Gly Asn Ile Val Ile	Gln Lys Lys Lys Tyr	Asn
	65	70	75
Lys Gln His Ile	Ile Pro Leu Glu Asn	Val Thr Ile Asp Ser	Ile
	80	85	90
Lys Asp Glu Gly	Asp Leu Arg Asn Gly	Trp Leu Ile Lys Thr	Pro
	95	100	105

WO 00/77040

PCT/US00/16636

Thr	Lys	Ser	Phe	Ala	Val	Tyr	Ala	Ala	Thr	Ala	Thr	Glu	Lys	Ser
				110						115				120
Glu	Trp	Met	Asn	His	Ile	Asn	Lys	Cys	Val	Thr	Asp	Leu	Leu	Ser
				125						130				135
Lys	Ser	Gly	Lys	Thr	Pro	Ser	Asn	Glu	His	Ala	Ala	Val	Trp	Val
				140						145				150
Pro	Asp	Ser	Glu	Ala	Thr	Val	Cys	Met	Arg	Cys	Gln	Lys	Ala	Lys
				155						160				165
Phe	Thr	Pro	Val	Asn	Arg	Arg	His	His	Cys	Arg	Lys	Cys	Gly	Phe
				170						175				180
Val	Val	Cys	Gly	Pro	Cys	Ser	Glu	Lys	Arg	Phe	Leu	Leu	Pro	Ser
				185						190				195
Gln	Ser	Ser	Lys	Pro	Val	Arg	Ile	Cys	Asp	Phe	Cys	Tyr	Asp	Leu
				200						205				210
Leu	Ser	Ala	Gly	Asp	Met	Ala	Thr	Cys	Gln	Pro	Ala	Arg	Ser	Asp
				215						220				225
Ser	Tyr	Ser	Gln	Ser	Leu	Lys	Ser	Pro	Leu	Asn	Asp	Met	Ser	Asp
				230						235				240
Asp	Asp	Asp	Asp	Asp	Asp	Ser	Ser	Asp						
				245										

<210> 45

<211> 247

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2790762CD1

<400> 45

Met	Glu	Thr	Asp	Glu	Ser	Pro	Ser	Pro	Leu	Pro	Cys	Gly	Pro	Ala
1				5					10					15
Gly	Glu	Ala	Val	Met	Glu	Ser	Arg	Ala	Arg	Pro	Phe	Gln	Ala	Leu
				20					25					30
Pro	Arg	Glu	Gln	Ser	Pro	Pro	Pro	Pro	Leu	Gln	Thr	Ser	Ser	Gly
				35					40					45
Ala	Glu	Val	Met	Asp	Val	Gly	Ser	Gly	Gly	Asp	Gly	Gln	Ser	Glu
				50					55					60
Leu	Pro	Ala	Glu	Asp	Pro	Phe	Asn	Phe	Tyr	Gly	Ala	Ser	Leu	Leu
				65					70					75
Ser	Lys	Gly	Ser	Phe	Ser	Lys	Gly	Arg	Leu	Leu	Ile	Asp	Pro	Asn
				80					85					90
Cys	Ser	Gly	His	Ser	Pro	Arg	Thr	Ala	Arg	His	Ala	Pro	Ala	Val
				95					100					105
Arg	Lys	Phe	Ser	Pro	Asp	Leu	Lys	Leu	Leu	Lys	Asp	Val	Lys	Ile
				110					115					120
Ser	Val	Ser	Phe	Thr	Glu	Ser	Cys	Arg	Ser	Lys	Asp	Arg	Lys	Val
				125					130					135
Leu	Tyr	Thr	Gly	Ala	Glu	Arg	Asp	Val	Arg	Ala	Glu	Cys	Gly	Leu
				140					145					150
Leu	Leu	Ser	Pro	Val	Ser	Gly	Asp	Val	His	Ala	Cys	Pro	Phe	Gly
				155					160					165
Gly	Ser	Val	Gly	Asp	Gly	Val	Gly	Ile	Gly	Gly	Glu	Ser	Ala	Asp
				170					175					180
Lys	Lys	Asp	Glu	Glu	Asn	Glu	Leu	Asp	Gln	Glu	Lys	Arg	Val	Glu
				185					190					195
Tyr	Ala	Val	Leu	Asp	Glu	Leu	Glu	Asp	Phe	Thr	Asp	Asn	Leu	Glu
				200					205					210
Leu	Asp	Glu	Glu	Gly	Ala	Gly	Gly	Phe	Thr	Ala	Lys	Ala	Ile	Val
				215					220					225
Gln	Arg	Asp	Arg	Val	Asp	Glu	Glu	Ala	Leu	Asn	Phe	Pro	Tyr	Glu
				230					235					240
Val	Cys	Trp	Gln	Pro	Leu	Leu								
				245										

<210> 46

<211> 316

<212> PRT

WO 00/77040

PCT/US00/16636

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2869164CD1

<400> 46

Met	Ala	Glu	Ala	Ala	Leu	Glu	Ala	Val	Arg	Ser	Glu	Leu	Arg	Glu	1	5	10	15
Phe	Pro	Ala	Ala	Ala	Arg	Glu	Leu	Cys	Val	Pro	Leu	Ala	Val	Pro	20	25	30	35
Tyr	Leu	Asp	Lys	Pro	Pro	Thr	Pro	Leu	His	Phe	Tyr	Arg	Asp	Trp	40	45	50	55
Val	Cys	Pro	Asn	Arg	Pro	Cys	Ile	Ile	Arg	Asn	Ala	Leu	Gln	His	60	65	70	75
Trp	Pro	Ala	Leu	Gln	Lys	Trp	Ser	Leu	Pro	Tyr	Phe	Arg	Ala	Thr	80	85	90	95
Ala	Asp	Ala	Val	Arg	Gly	Asp	Arg	Phe	Met	Met	Pro	Ala	Glu	Arg	100	105	110	115
Arg	Leu	Pro	Leu	Ser	Phe	Val	Leu	Asp	Val	Leu	Glu	Gly	Arg	Ala	120	125	130	135
Gln	His	Pro	Gly	Val	Leu	Tyr	Val	Gln	Lys	Gln	Cys	Ser	Asn	Leu	140	145	150	155
Pro	Ser	Glu	Leu	Pro	Gln	Leu	Leu	Pro	Asp	Leu	Glu	Ser	His	Val	160	165	170	175
Pro	Trp	Ala	Ser	Glu	Ala	Leu	Gly	Lys	Met	Pro	Asp	Ala	Val	Asn	180	185	190	195
Phe	Trp	Leu	Gly	Glu	Ala	Ala	Ala	Val	Thr	Ser	Leu	His	Lys	Asp	200	205	210	215
His	Tyr	Glu	Asn	Leu	Tyr	Cys	Val	Val	Ser	Gly	Glu	Lys	His	Phe	220	225	230	235
Leu	Phe	His	Pro	Pro	Ser	Asp	Arg	Pro	Phe	Ile	Pro	Tyr	Glu	Leu	240	245	250	255
Tyr	Thr	Pro	Ala	Thr	Tyr	Gln	Leu	Thr	Glu	Glu	Gly	Thr	Phe	Lys	260	265	270	275
Val	Val	Asp	Glu	Glu	Ala	Met	Glu	Lys	Val	Pro	Trp	Ile	Pro	Leu	280	285	290	295
Asp	Pro	Leu	Ala	Pro	Asp	Leu	Ala	Arg	Tyr	Pro	Ser	Tyr	Ser	Gln	300	305	310	315
Ala	Gln	Ala	Leu	Arg	Cys	Thr	Val	Arg	Ala	Gly	Glu	Met	Leu	Tyr				
Leu	Pro	Ala	Leu	Trp	Phe	His	His	Val	Gln	Gln	Ser	Gln	Gly	Cys				
Ile	Ala	Val	Asn	Phe	Trp	Tyr	Asp	Met	Glu	Tyr	Asp	Leu	Lys	Tyr				
Ser	Tyr	Phe	Gln	Leu	Leu	Asp	Ser	Leu	Thr	Lys	Ala	Ser	Gly	Leu				

Asp

<210> 47

<211> 334

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3317629CD1

<400> 47

Met	Thr	Arg	Ser	Leu	Phe	Lys	Gly	Asn	Phe	Trp	Ser	Ala	Asp	Ile	1	5	10	15
Leu	Ser	Thr	Ile	Gly	Tyr	Asp	Asn	Ile	Ile	Gln	His	Leu	Asn	Asn	20	25	30	35
Gly	Arg	Lys	Asn	Cys	Lys	Glu	Phe	Glu	Asp	Phe	Leu	Lys	Glu	Arg				

WO 00/77040

PCT/US00/16636

Ala	Ala	Ile	Glu	Glu	Arg	Tyr	Gly	Lys	Asp	Leu	Leu	Asn	Leu	Ser	
				50					55						60
Arg	Lys	Lys	Pro	Cys	Gly	Gln	Ser	Glu	Ile	Asn	Thr	Leu	Lys	Arg	
				65					70						75
Ala	Leu	Glu	Val	Phe	Lys	Gln	Gln	Val	Asp	Asn	Val	Ala	Gln	Cys	
				80					85						90
His	Ile	Gln	Leu	Ala	Gln	Ser	Leu	Arg	Glu	Glu	Ala	Arg	Lys	Met	
				95					100						105
Glu	Glu	Phe	Arg	Glu	Lys	Gln	Lys	Leu	Gln	Arg	Lys	Lys	Thr	Glu	
				110					115						120
Leu	Ile	Met	Asp	Ala	Ile	His	Lys	Gln	Lys	Ser	Leu	Gln	Phe	Lys	
				125					130						135
Lys	Thr	Met	Asp	Ala	Lys	Lys	Asn	Tyr	Glu	Gln	Lys	Cys	Arg	Asp	
				140					145						150
Lys	Asp	Glu	Ala	Glu	Gln	Ala	Val	Ser	Arg	Ser	Ala	Asn	Leu	Val	
				155					160						165
Asn	Pro	Lys	Gln	Lys	Glu	Lys	Leu	Phe	Val	Lys	Leu	Ala	Thr	Ser	
				170					175						180
Lys	Thr	Ala	Val	Glu	Asp	Ser	Asp	Lys	Ala	Tyr	Met	Leu	His	Ile	
				185					190						195
Gly	Thr	Leu	Asp	Lys	Val	Arg	Glu	Glu	Trp	Gln	Ser	Glu	His	Ile	
				200					205						210
Lys	Ala	Cys	Glu	Ala	Phe	Glu	Ala	Gln	Glu	Cys	Glu	Arg	Ile	Asn	
				215					220						225
Phe	Phe	Arg	Asn	Ala	Leu	Trp	Leu	His	Val	Asn	Gln	Leu	Ser	Gln	
				230					235						240
Gln	Cys	Val	Thr	Ser	Asp	Glu	Met	Tyr	Glu	Gln	Val	Arg	Lys	Ser	
				245					250						255
Leu	Glu	Met	Cys	Ser	Ile	Gln	Arg	Asp	Ile	Glu	Tyr	Phe	Val	Asn	
				260					265						270
Gln	Arg	Lys	Thr	Gly	Gln	Ile	Pro	Pro	Ala	Pro	Ile	Met	Tyr	Glu	
				275					280						285
Asn	Phe	Tyr	Ser	Ser	Gln	Lys	Asn	Ala	Val	Pro	Ala	Gly	Lys	Ala	
				290					295						300
Thr	Gly	Pro	Asn	Leu	Ala	Arg	Arg	Gly	Pro	Leu	Pro	Ile	Pro	Lys	
				305					310						315
Ser	Ser	Pro	Asp	Asp	Pro	Asn	Tyr	Ser	Leu	Val	Asp	Asp	Tyr	Ser	
				320					325						330

Leu Leu Tyr Gln

<210> 48

<211> 113

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3870488CD1

<400> 48

Met	Asp	Pro	Lys	Leu	Leu	Lys	Gln	Leu	Arg	Lys	Ala	Glu	Lys	Ala	
1				5					10						15
Glu	Arg	Glu	Phe	Arg	Lys	Lys	Phe	Lys	Phe	Glu	Gly	Glu	Ile	Val	
				20					25						30
Val	His	Thr	Lys	Met	Met	Ile	Asp	Pro	Asn	Ala	Lys	Thr	Arg	Arg	
				35					40						45
Gly	Gly	Gly	Lys	His	Leu	Gly	Ile	Arg	Arg	Gly	Glu	Ile	Leu	Glu	
				50					55						60
Val	Ile	Glu	Phe	Thr	Ser	Asn	Glu	Glu	Met	Leu	Cys	Arg	Asp	Pro	
				65					70						75
Lys	Gly	Lys	Tyr	Gly	Tyr	Val	Pro	Arg	Thr	Ala	Leu	Leu	Pro	Leu	
				80					85						90
Glu	Thr	Glu	Val	Tyr	Asp	Asp	Val	Asp	Phe	Cys	Asp	Pro	Leu	Glu	
				95					100						105
Asn	Gln	Pro	Leu	Pro	Leu	Gly	Arg								
				110											

<210> 49

WO 00/77040

PCT/US00/16636

<211> 264
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3886318CD1

<400> 49
 Met Leu Gly Ala Glu Thr Glu Glu Lys Leu Phe Asp Ala Pro Leu
 1 5 10 15
 Ser Ile Ser Lys Arg Glu Gln Leu Glu Gln Val Pro Glu Asn
 20 25 30
 Tyr Phe Tyr Val Pro Asp Leu Gly Gln Val Pro Glu Ile Asp Val
 35 40 45
 Pro Ser Tyr Leu Pro Asp Leu Pro Gly Ile Ala Asn Asp Leu Met
 50 55 60
 Tyr Ile Ala Asp Leu Gly Pro Gly Ile Ala Pro Ser Ala Pro Gly
 65 70 75
 Thr Ile Pro Glu Leu Pro Thr Phe His Thr Glu Val Ala Glu Pro
 80 85 90
 Leu Lys Ala Asp Leu Gln Asp Gly Val Leu Thr Pro Pro Pro Pro
 95 100 105
 Pro Pro Pro Pro Pro Pro Ala Pro Glu Val Leu Ala Ser Ala Pro
 110 115 120
 Pro Leu Pro Pro Ser Thr Ala Ala Pro Val Gly Gln Gly Ala Arg
 125 130 135
 Gln Asp Asp Ser Ser Ser Ser Ala Ser Pro Ser Val Gln Gly Ala
 140 145 150
 Pro Arg Glu Val Val Asp Pro Ser Gly Gly Arg Ala Thr Leu Leu
 155 160 165
 Glu Ser Ile Arg Gln Ala Gly Gly Ile Gly Lys Ala Lys Leu Arg
 170 175 180
 Ser Met Lys Glu Arg Lys Leu Glu Lys Lys Gln Gln Lys Glu Gln
 185 190 195
 Glu Gln Val Arg Ala Thr Ser Gln Gly Gly His Leu Met Ser Asp
 200 205 210
 Leu Phe Asn Lys Leu Val Met Arg Arg Lys Gly Ile Ser Gly Lys
 215 220 225
 Gly Pro Gly Ala Gly Glu Gly Pro Gly Gly Ala Phe Ala Arg Val
 230 235 240
 Ser Asp Ser Ile Pro Pro Leu Pro Pro Pro Gln Gln Pro Gln Ala
 245 250 255
 Glu Glu Asp Glu Asp Asp Trp Glu Ser
 260

<210> 50
 <211> 185
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 4043934CD1

<400> 50
 Met Gly Gln Cys Leu Arg Tyr Gln Met His Trp Glu Asp Leu Glu
 1 5 10 15
 Glu Tyr Gln Ala Leu Thr Phe Leu Thr Arg Asn Glu Ile Leu Cys
 20 25 30
 Ile His Asp Thr Phe Leu Lys Leu Cys Pro Pro Gly Lys Tyr Tyr
 35 40 45
 Lys Glu Ala Thr Leu Thr Met Asp Gln Val Ser Ser Leu Pro Ala
 50 55 60
 Leu Arg Val Asn Pro Phe Arg Asp Arg Ile Cys Arg Val Phe Ser
 65 70 75
 His Lys Gly Met Phe Ser Phe Glu Asp Val Leu Gly Met Ala Ser
 80 85 90

WO 00/77040

PCT/US00/16636

Val Phe Ser Glu Gln Ala Cys Pro Ser Leu Lys Ile Glu Tyr Ala
 95 100 105
 Phe Arg Ile Tyr Asp Phe Asn Glu Asn Gly Phe Ile Asp Glu Glu
 110 115 120
 Asp Leu Gln Arg Ile Ile Leu Arg Leu Leu Asn Ser Asp Asp Met
 125 130 135
 Ser Glu Asp Leu Leu Met Asp Leu Thr Asn His Val Leu Ser Glu
 140 145 150
 Ser Asp Leu Asp Asn Asp Asn Met Leu Ser Phe Ser Glu Phe Glu
 155 160 165
 His Ala Met Ala Lys Ser Pro Asp Phe Met Tyr Ser Phe Arg Ile
 170 175 180
 Arg Phe Trp Gly Cys
 185

<210> 51
 <211> 72
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 4371445CD1

<400> 51
 Met Phe Thr Ile Ile Phe Pro Val Cys Lys Asn Ser Met Pro Val
 1 5 10 15
 Lys Lys Thr Asp Thr Asp Arg Ala Leu Ser Leu Leu Glu Glu Tyr
 20 25 30
 Cys Lys Lys Leu Arg Lys Pro Glu Glu Gln Leu Leu Lys Asn Ala
 35 40 45
 Val Lys Lys Val Met Gly Ile Phe Lys Ser Ser Leu Phe Gln Ala
 50 55 60
 Leu Leu Gly Met Tyr Tyr Glu Ser Tyr Ser Ser Phe
 65 70

<210> 52
 <211> 434
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 5527925CD1

<400> 52
 Met Ala Ala Ala Ala Gly Ser Cys Ala Arg Val Ala Ala Trp Gly
 1 5 10 15
 Gly Lys Leu Arg Arg Gly Leu Ala Val Ser Arg Gln Ala Val Arg
 20 25 30
 Ser Pro Gly Pro Leu Ala Ala Ala Val Ala Gly Ala Ala Leu Ala
 35 40 45
 Gly Ala Gly Ala Ala Trp His His Ser Arg Val Ser Val Ala Ala
 50 55 60
 Arg Asp Gly Ser Phe Thr Val Ser Ala Gln Lys Asn Val Glu His
 65 70 75
 Gly Ile Ile Tyr Ile Gly Lys Pro Ser Leu Arg Lys Gln Arg Phe
 80 85 90
 Met Gln Phe Ser Ser Leu Glu His Glu Gly Glu Tyr Tyr Met Thr
 95 100 105
 Pro Arg Asp Phe Leu Phe Ser Val Met Phe Glu Gln Met Glu Arg
 110 115 120
 Lys Thr Ser Val Lys Lys Leu Thr Lys Lys Asp Ile Glu Asp Thr
 125 130 135
 Leu Ser Gly Ile Gln Thr Ala Gly Cys Gly Ser Thr Phe Phe Arg
 140 145 150
 Asp Leu Gly Asp Lys Gly Leu Ile Ser Tyr Thr Glu Tyr Leu Phe
 155 160 165
 Leu Leu Thr Ile Leu Thr Lys Pro His Ser Gly Phe His Val Ala

WO 00/77040

PCT/US00/16636

	170		175		180
Phe Lys Met Leu	Asp Thr Asp Gly Asn	Glu Met Ile Glu Lys	Arg		
	185		190		195
Glu Phe Phe Lys	Leu Gln Lys Ile Ile	Ser Lys Gln Asp Asp	Leu		
	200		205		210
Met Thr Val Lys	Thr Asn Glu Thr Gly	Tyr Gln Glu Ala Ile	Val		
	215		220		225
Lys Glu Pro Glu	Ile Asn Thr Thr Leu	Gln Met Arg Phe Phe	Gly		
	230		235		240
Lys Arg Gly Gln	Arg Lys Leu His Tyr	Lys Glu Phe Arg Arg	Phe		
	245		250		255
Met Glu Asn Leu	Gln Thr Glu Ile Gln	Glu Met Glu Phe Leu	Gln		
	260		265		270
Phe Ser Lys Gly	Leu Ser Phe Met Arg	Lys Glu Asp Phe Ala	Glu		
	275		280		285
Trp Leu Leu Phe	Phe Thr Asn Thr Glu	Asn Lys Asp Ile Tyr	Trp		
	290		295		300
Lys Asn Val Arg	Glu Lys Leu Ser Ala	Gly Glu Ser Ile Ser	Leu		
	305		310		315
Asp Glu Phe Lys	Ser Phe Cys His Phe	Thr Thr His Leu Glu	Asp		
	320		325		330
Phe Ala Ile Ala	Met Gln Met Phe Ser	Leu Ala His Arg Pro	Val		
	335		340		345
Arg Leu Ala Glu	Phe Lys Arg Ala Val	Lys Val Ala Thr Gly	Gln		
	350		355		360
Glu Leu Ser Asn	Asn Ile Leu Asp Thr	Val Phe Lys Ile Phe	Asp		
	365		370		375
Leu Asp Gly Asp	Glu Cys Leu Ser His	Glu Glu Phe Leu Gly	Val		
	380		385		390
Leu Lys Asn Arg	Met His Arg Gly Leu	Trp Val Pro Gln His	Gln		
	395		400		405
Ser Ile Gln Glu	Tyr Trp Lys Cys Val	Lys Lys Glu Ser Ile	Lys		
	410		415		420
Gly Val Lys Glu	Val Trp Lys Gln Ala	Gly Lys Gly Leu Phe			
	425		430		

<210> 53

<211> 1629

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 129042CB1

<400> 53

gcgacctgta	tgaggaggag	gaggaggagg	atgtgaagat	ggcggacgtg	cagatgctgc	60
tggaagagga	aatcccgggg	ggccgcgggg	ccctcttcga	cagctacaca	aatctggaac	120
gggtggccga	ttactgcgag	aacaactaca	tacagtcagc	agataagcag	agagccctag	180
aagaaaccaa	agcctacacc	acccaatcct	tagcaagtgt	tgccatatctg	ataaacacct	240
tggccaaaca	tgtcctgcag	atgctggata	tccaggcatc	ccagctacga	aggatggaat	300
cttcaatcaa	tcatatttca	caaacagttg	atattcataa	agagaaagtt	gcaagaagag	360
aaattggtat	tttgactacc	aataaaaaa	cttcaaggac	acataagatt	attgctccag	420
ccaaccttga	acgaccagtt	cgttatatta	gaaaacctat	tgactataca	attctagatg	480
atattggaca	tgagtaaaag	gtgagtaccc	agaacatgaa	gatgggtggg	ctgccgcgta	540
caacacctcc	aactcagaag	ccccctagtc	cccctatgtc	agggaaaggg	acacttgggc	600
ggcactcccc	ctatcgca	ctggagccag	tgctgctctc	agtgggtacca	aatgattacg	660
tacctagccc	aaccgcgta	atggctccct	cgcagcagag	ccctgtgagg	acagcttctg	720
tgaatcaaag	aaatcgaa	tacagcagca	gtgggagtag	tgaggggagc	caccaagta	780
gtcggagcag	cagtcgagag	aacagtgga	gtggtagtgt	gggggttctc	attgctgttc	840
ctactccatc	tcctccag	gtctttccag	gtcatcctgt	acagttctac	agcatgaata	900
ggcctgcctc	tcgccatact	cccccaaca	tagggggctc	gttgccctat	agacgccctc	960
cttccattac	ttcacaaca	agccttcaga	atcagatgaa	tgagggacct	ttttatagcc	1020
agaatccagt	ttcagataca	ccacctccac	cgccacctgt	ggaagaacca	gtctttgatg	1080
agtctccccc	acctctcct	cctccagaag	attacgaaga	ggaggaagct	gctgtggttg	1140
agtatatgta	tccttatgct	gaagaggacc	caccgtgggc	tccacgttct	tacttggaaa	1200
aggttggtggc	aatttatgac	tatacaaaa	acaaggaaga	tgagctgtcc	tttcaggaag	1260
gagccattat	ttatgtcatc	aagaagaatg	acgatgggtg	gtatgagggg	gttatgaatg	1320

WO 00/77040

PCT/US00/16636

```

gagtgactgg gcttttttctt gggaattacg ttgagtctat catgcattat tctgagtaaa 1380
gctcagcagg gctgtgcttg cctcacagga atagtcagggt cttcccagat tatctgaagg 1440
ccctggggat tccactccag taaagtagaa tgaaggatac aaatgataaa aattacactt 1500
ttttttttgg tttattcccc agtattaaaa acaaagcaag ctgagtctga acaaatggat 1560
ctttctgcca tcatattgtac aatgctgagc tgtctggatt gaaataaaat gaccattttt 1620
atgtatgtc                                     1629

```

```

<210> 54
<211> 1257
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 778003CB1

```

```

<400> 54
gcacctgatac tttctcatcc ttccctgtct ttcccttctt cttcacctcc tctcctctct 60
tgagggaagg ggcccggaga agggcatgtg gggggccctc tgacagtggc ccgattgggg 120
tgacaggcgc ccaaatggcc aagtggctac gggactacct gagctttggg ggtcggaggc 180
cccctccgca gccgcccacc ccggactaca ccgagagcga catcctgagg gcctaccgcg 240
cgcagaagaa cctggacttt gaggacccct atgaggacgc ggagagccgc ttggagccgg 300
accccgcggg ccctggggac tccaagaacc ccggagatgc caagtatggt tctcccaagc 360
accggctcat caaggtggag gctgcggata tggccagagc caaggccctt ctgggcggcc 420
ccggggaggga gctggaagcc gacactgagt atttagacct ctttgatgct cagcctcatc 480
ctgcaccccc gcatgatggg tacatggagc cctacgatgc ccaatgggtc atgagtgaac 540
ttcccggcag aggggtgcag ctctatgaca ccccttatga ggaacaggac ccagagacag 600
cagatggacc cccttctggg cagaagcctc ggcagagccg gatgccccag gaagatgaac 660
ggccagcaga tgagtatgat cagccctggg agtggaagaa agaccacatc tccagggcgt 720
ttgcagtgca gtttgacagt ccagagtggg agaggactcc aggtctagcc aaggagctcc 780
ggagacctcc cccagaagc cccagcctg cggagcgtgt ggaccagcc ctgcccctgg 840
agaaacagcc gtggtttcat ggccccctga acagggcgga tgcagagagc ctctctgtcc 900
tctgcaagga aggcagctac ctagtgcggc tcagtgcagc cagccccagc gactgctcct 960
tgtctctcag gagcagccag ggcttccctg atctgaagtt cgcgcggacc cgtgagaacc 1020
aggtggtgct gggccaacac agcgggcccct tccccagcgt gcccagctc gtcctccact 1080
acagttcacg cccactgccg gtgcagggtg ccgagcatct ggctctgctg taccocgtgg 1140
tcacgcagac cccctgacag tgacctcgg cccctttttg agtctcggg cccagaatcg 1200
tatcccaagg ccctcccatg gcctagaaaa taaataagtt attgttaaaa aaaaaaa 1257

```

```

<210> 55
<211> 1527
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 1418671CB1

```

```

<400> 55
gcttcctggg cgccgtgggc ggggactgag cgggctgcgc ggggtgccag gagcgcgagg 60
cgccgggaag gcgcacctgg ggtggccctg gcgtgcgggc ggcgacatgg aggacggcgt 120
gctcaaggag ggcttcctgg tcaagagggg ccacattgtc cacaactgga aggcgcgatg 180
gttcatecct cggcagaaca cgctggtgta ctacaagctt gaggggggtc ggagagtgc 240
ccctcccaag ggccggatcc tcttggatgg ctgcaccatc acctgcccct gctggagta 300
tgaaaaccga ccgctcctca ttaagctgaa gactcaaaaca tccacggagt acttccctgga 360
ggcctgttct cgagaggagc gggatgcctg ggcttttgag atcaccgggg ctattcatgc 420
agggcagccg gggaaggtcc agcagctgca cagcctgaga aactccttca agctgcccc 480
gcacatcagc ctgcatcgca ttgtggacaa gatgcacgat agcaacaccg gaatccgttc 540
aagcccaaac atggagcagg gaagcaccta taaaaagacc ttctcgggt cctccctggt 600
ggaactggctc atctccaaca gcttcacggc cagccgtctg gaggcgggtg cctgggctc 660
catgctcatg gaggagaact tctcaggcc tgtgggtgtc cgaagcatgg gagccattcg 720
ctctggggat ctggccgagc agttcctgga tgactccaca gccctgtaca cttttgctga 780
taggtacaaa aagaagataa gccccaaagg agaaattagc ctgagcactg tggagttaag 840
tgccacgggt gtgaaacaag gctacctggc caagcagga cacaagagga aaaactggaa 900
ggtgcgtgc tttgttctaa ggaaggatcc agctttctg cattactatg acccttccaa 960
agaagagAAC aggcagtggt gtgggttttc tcttcgtggt tcaactcgtg ctgctctgga 1020
agataatggc gttccactg gggttaaagg gaatgtccag ggaaacctct tcaaagtgat 1080

```

WO 00/77040

PCT/US00/16636

tactaaggat	gacacacact	attacattca	ggccagcagc	aaggctgagc	gagccgagtg	1140
gattgaagct	atcaaaaagc	taacatgaca	aggacctgag	ggaaccagga	ttctctccctc	1200
ctaccagatg	acacagacaa	gagttccctgg	agaatgggag	tgtaagact	tttgacttct	1260
ttgtaagttt	tgtactgctt	tggagagtga	atgctgccaa	gagttcctca	gattacaaac	1320
agcagtgggtg	ccatttcctt	ccccatcttc	atgttacaaa	cctggaaagg	ctagaacagc	1380
cattaggcgt	cagcatcttg	acttttcccc	agcatcacia	acagccattt	cctcgggcac	1440
caaagttagt	tccctttgtt	ggaacaatta	cactggccat	gccataatgt	tgaataaaac	1500
tctcttctta	tgaaaaaaa	aaaaaaa				1527

<210> 56

<211> 2220

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1456841CB1

<400> 56

ctgctgtcct	tccaccacca	gcaccggacc	acctgctcca	agaccagcct	cctgggggga	60
ccacgcaccc	ggccttcaact	ggcaccagg	gagccgtcct	cagcagcgtc	aacatgtcaa	120
ggccccagcag	cagagccatt	tacttgcacc	ggaaggagta	ctcccagaac	ctcacctcag	180
agccccacct	cctgcagcac	agggtggagc	acttgatgac	atgcaagcag	gggagtcaga	240
gagtccagg	gccccaggat	gccttgcaga	agctgttcga	gatggatgca	cagggccggg	300
tgtggagcca	agacttgatc	ctgcaggcca	gggacggctg	gctgcagctg	ctggacattg	360
agaccaagga	ggagctggac	tcttaccgcc	tagacagcat	ccaggccatg	aatgtggcgc	420
tcaacacatg	ttcctacaac	tccatcctgt	ccatcacctg	gcaggagccg	ggcctgccag	480
gcactagcac	tctgctcttc	cagtgccagg	aagtgggggc	agagcgactg	aagaccagcc	540
tgcagaaggc	tctggaggaa	gagctggagc	aaagacctcg	acttggaggc	cttcagccaa	600
gccaggacag	atggaggggg	cctgctatgg	aaaggccgct	ccctatggag	caggcacgct	660
atctggagcc	ggggatccct	ccagaacagc	cccaccagag	gaccctagag	cacagcctcc	720
caccatcccc	aaggccccctg	ccacgccaca	ccagtgcctg	agaaccaagt	gcctttactc	780
tgctctctcc	aaggcggtcc	tcttcccccg	aggaccaga	gagggacgag	gaagtgtcta	840
accatgtcct	aaggggacatt	gagctgttca	tgggaaaagct	ggagaaggcc	caggcaaaga	900
ccagcaggaa	gaagaaattt	gggaaaaaaa	acaaggacca	gggaggtctc	accaggcac	960
agtacattga	ctgcttccag	aagatcaagt	acagcttcaa	cctcctggga	aggctggcca	1020
cctggctgaa	ggagacaagt	gccccagagc	tctgtacacat	cctcttcaag	tccctgaact	1080
tcatcctggc	caggtgccct	gaggctggcc	tagcagccca	agtgatctca	cccctcctca	1140
cccctaaagc	tatcaacctg	ctacagtcct	gtctaagccc	acctgagagt	aaacctttgga	1200
tgggggttggg	ccagcctggg	accactagcc	gggcccagctg	gacaggcgat	gagccccctgc	1260
cctaccaacc	cacattctcg	gatgactggc	aacttccaga	gccctccagc	caagcacctc	1320
taggatacca	ggacctgtt	tcccttcggc	ggggaagtca	taggttaggg	agcacctcac	1380
actttctctca	ggagaagaca	cacaaccatg	accctcagcc	tggggacccc	aactccaggc	1440
cctccagccc	caaacctgcc	cagccagccc	tgaaaatgca	agtcttgtac	gagtttgaag	1500
ctaggaaccc	acgggaacctg	actgtgttcc	agggagagaa	gctggaggtt	ctggaccaca	1560
gcaagcgggtg	gtggctgggtg	aagaatgagg	cgggacggag	cggctacatt	ccaagcaaca	1620
tcctggagcc	cctacagccg	gggacccctg	ggacccaggg	ccagtcaccc	tctcgggttc	1680
caatgcttcg	acttagctcg	aggcctgaag	aggtcacaga	ctggctgcag	gcagagaact	1740
tctccactgc	cacgggtgag	acacttgggt	ccttgacggg	gagccagcta	cttcgcataa	1800
gacctgggga	gctacagatg	ctatgtccac	aggaggcccc	acgaatcctg	tcccggctgg	1860
aggctgtcag	aaggatgctg	gggataagcc	cttaggcacc	agcttagaca	cctccaagaa	1920
ccaggccccg	ctgatgcaag	atggcagatc	tgatacccat	tagagccccg	agaattcctc	1980
ttctggatcc	cagtttgcag	caaacccccac	accccagctc	acacagcaaa	aacaatggac	2040
aggccccagag	ggtgaagcaa	acagtgtccc	ttctggctgt	gttggagcct	cccagtaac	2100
cacctattta	ttttacctct	ttcccaaac	tgagcattt	atgcctaggc	ttgtcaagaa	2160
tctgttcagt	ccctctcctt	ctcaataaaa	gcattcttcaa	gcttgtaaaa	aaaaaaaaaa	2220

<210> 57

<211> 2895

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2020010CB1

<400> 57

WO 00/77040

PCT/US00/16636

```

ccaggccccga agccgaggcg gggccgggat gcggcgctga ggcccagcat ggccggccccg 60
ggccccacact tcccgcctgca ccggctcgtc tgggcgaacc ggcacgcgca actggaggcc 120
gcactgcaca gccaccagca cgacattgaa caggaggacc cccgcgggcg gacccactg 180
gagctggccg tgtctctggg aaacctggag tctgtgagag tgctccttcg acacaatgcc 240
aacgtgggca aagagaaccg ccagggtcgg gcagtcctgc aggaggcagt cagcactgga 300
gaccccgaga tgggtgcagct ggtgctccag tatcgggact accagagggc cacgcagagg 360
ctggcgggca ttccggaaact gctcaacaaa cttcgccagg cccccgattt ctacgttgag 420
atgaagtggg agttcaccag ctgggtgccc cttgtgtcta agatgtgccc aagcgaatgtg 480
taccgcgtgt ggaagcgggg tgagagcctg cgagtagaca ccagtctcct gggttcgag 540
cacatgacct ggcagcgggg ccggaggagc ttcattctca agggccagga ggcaggagcc 600
ctggtgatgg aagtggacca tgaccggcag gtggtgcatg tggagacact ggggtcact 660
ctgcaggagc ccgaaacact gctggccgcc atggcgccca gcgaggagca tgtggccagt 720
cgctcacct ctctatcgt ctcacccac ctggacactc gtaatgtggc ctttgagagg 780
aacaatatgt gtatctgggg ctggcggtct ctgggtgacac gagaagatgg aaactgttag cggctacgag 840
gccaaggtgt acagtgccac caactggag ctggtgacac gcacacgcac ggagcacctc 900
tctgatcagg acaagtgcag gagcaaagcg ggggaagact cattccagtc cttcctgggg 960
atggcgagc agcattcctc ccacaccggg gcccccgctg agcaggcagc cagccccacc 1020
aaccgccag ccattcctcc tgaggagtac acttcagcct ggagtcagg 1080
aaccattggc gccccatgca gatgtccagc aaagtagaga ggtgaggtct gagagctggc 1140
tggggacttg cctcgggaca agggctcttg cagacccctc tctgggcctg tcatagttag 1200
ggacccactc cctcggtcgg cttctctctg gactccactc ctggagggca ggagtcagt 1260
ctgccttatc catggtcctc agcccttagc aaggggcttg gcacagaaaa ccggtagttt 1320
gtctttgatg aatggatggg gccaccatg tatggttttc tattgaattt catgagttac 1380
tgctggggcc agcgtggcac agtgggaagg gccccagcg acgtggcctg ggagtgagc 1440
gtctgccttg gtggaacaga acagttagc tcttgccctg tgaggagcct tgagcaggt 1500
taggcggtaa cagcaggcac agtgccctga caagcctagc gctctcccca ccattcagg 1560
aggattctct tagccaccca acagtcgctg ggattcgaa cctggcagtc ttgcccagg 1620
gtgtgctgga cataaaagt tggcaacac tgagctgggt accagctctg ggtgaggag 1680
gaaaacgggg ctgtgggcca ggcccagaga gaagccaca gcctggcacc tggcctcct 1740
gtccagacca gatgagctgg tacgaaatcc tcaggagccc cagcctgggc ccaggagg 1800
gggcagcttg ggccacgtgg ccaggacacc agctcccggg ggaggcgggc agcggcatct 1860
gagcagagca gggcactcca ggccaggcag aaggtgggta aaggcagct cccacgaacc 1920
agagggcagt cctcaatgga agggccacca gccgtgctc acccatgtcc tgtggtcggc 1980
tgggcaggtt caaggcaaca ctgtggctga gtgaagagca cccgctctcc ctgggtgacc 2040
aggtgacccc catcatcgac ctaatggcca tcagcaacgc tcccgctcaa aattgagatt ccccttttcc 2100
acttcatcac tctgcgcctt ccacctggct acctgtgtg acctgtgtg ctgtgatgag cccctgagct 2220
acgtgtctaa tgcccgcac agctctgctg tcgcccgcac agggaaacct ttccgtgag 2280
ccgtgtgggt gccggcccc caccgtgttt gaagtgccta acgggtacag cgtgctgggc atggagcgca 2340
aggtggaccc cgggacgag gacgatgacc tcctgcagtt cgccatccag cagagcctgc 2400
acgagccctt ctgaagcggg cactgaggcg gagcaggtga cgtctggga agccctgacc aacacccggc 2460
ccgtgcccc cctcctccc caggccacgg tttatgagga acagcttcag ctggagcggg 2520
ccctccagga aagcctgcag ctgtccacag agcccagggg cccaggatcc cctcccagga 2580
cacccccagc ccccggtcca ccagctttg aagagcagct gcgcctggcc ctggagttgt 2640
cttcacggga gcaggaggag cgggagcggc gcgggcagca ggaggaggag gacttacagc 2700
ggatcctgca gctgtcact actgagcact gggccatagc cccgggaggg ctggccaggc 2760
cactccctgc ccgcttttgt aatttatcta tttataaact ctctgctgct gagcttggg 2820
cctggagccc caggaatgag caggcagggg agactgagat ggaaataaag agactgtcgc 2880
agcaaaaaaa aaaaa 2895

```

<210> 58

<211> 2801

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2149037CB1

<400> 58

```

gcgcccgtga gcgctgactg ggtgagctgc ggggaagctgc taaccgcacc cggattggcg 60
ctgaggtggc ccgtggggca gggcagatga ttctggacca gatgaagcct gaggagcctt 120
ccagctctaa gatagcagga taggagactt ctaagattgg agctgcagaa gacttgccag 180
cccaccagca caatgtcagg aagccataca cctgcctgtg gccctttctc agccctgact 240
ccagcatat ggccccagga gatcttggcc aagtacacgc agaaggaaga gtcagcagag 300
caaccagagt tctactacga tgagtttgtt ttcggtgtgt acaaggaaga aggtgatgag 360
cctggctcca gtctgctggc gaactccctc ctgatggagg atgctccaca gaggctgcgg 420

```


WO 00/77040

PCT/US00/16636

tgccaggccc	acctggagtt	cacccataac	cacgatgtgg	gggatctcac	ctgggacaag	480
attgccgtct	ccctaccccg	ctctgagaag	ctccgctccc	tggtgctggc	cgccatccca	540
catggcatga	ggccacagct	gtggatgcgg	ctctctgggg	ccctgcagaa	gaagaggaa	600
tctgagctgt	cctaccgcga	gattgtgaag	aacagctcca	acgatgagac	catcgctgcc	660
aagcagatcg	agaaggacct	gctccgcacc	atgcccagca	acgcctgctt	cgccagcatg	720
ggtagcatcg	gggtgccccg	cctgcgcagg	gtgctccggg	ccctggcctg	gctctaccca	780
gagatcggct	actgccaggg	caccggcatg	gtggccgcct	gcctcctgct	gttcctggag	840
gaggaggacg	ccttctggat	gatgtctgcc	atcatcgagg	acctgctccc	cgctcctac	900
ttcagcacca	ccctgctggg	gtccagact	gaccagcggg	tcctgcgcca	cctcattgtc	960
cagtacctgc	ctgccttggg	caagctgctc	caggagcatg	acattgagct	gtccctgac	1020
acactgcact	gggttctcac	ggccttcgcc	agcgtggtgg	acatcaagct	gctcctgcgc	1080
atctgggacc	tggttttcta	cgagggtctc	cgggtgctgt	tcagctcac	gctgggcatg	1140
ctgcacctca	aggaggaaga	gctgatccag	tcagagaact	cggcctccat	cttcaacacg	1200
ctatcgata	tcccgtcgca	gatggaggac	gcggagctgc	ttctgggggt	ggccatgcgg	1260
ctggccggct	ccctcaccga	tgtggccgtg	gagactcagc	gccgcaagca	cctggcctat	1320
ctcattgcag	accaggggcca	gctcctgggg	gccggcaccc	tcaccaacct	ctctcaggtt	1380
gttcgccgca	ggacccagcg	gaggaagtcc	accatcactg	ctctgctctt	cggggaggat	1440
gacctggagg	cactcaaggc	caagaacatc	aagcagacgg	aactgggtgg	tgacctccg	1500
gaagccatcc	tgccgctggc	acgccacttc	cagtgcacag	accccaaaaa	ctgcagcgtg	1560
gagctgactc	cagactatag	catggagagc	caccagcggg	accacgagaa	ctacgtggcg	1620
tgctcacgca	gccaccggcg	ccgagccaa	gccctgctgg	actttgagcg	gcacgacgac	1680
gacgagctgg	gcttccgcaa	gaacgacatc	atcacaatcg	tgtctcagaa	ggacgagcac	1740
tgctgggtgg	gggagctcaa	cgccctgcga	ggctgggttc	cagccaaagt	cgtggaagtc	1800
ctggatgagc	gcagcaaaga	gtactccatc	gcgggggatg	actcggtgac	ggaggggggtc	1860
acagacctcg	tgccaggggac	cctctgccc	gcccttaagg	ccctgttcga	acatggactg	1920
aagaagccat	ccctgcttgg	gggcgcctgc	cacccctggc	tggttatcga	ggaggctgca	1980
ggccggggagg	tcgagagaga	ctttgcctcc	gtgtattccc	gtctgggtgct	ctgtaagacc	2040
ttcaggttgg	atgaagatgg	caaagtccctg	accccgagg	agctgctcta	ccgggctgtg	2100
cagtctgtga	acgtgaccca	cgatgcagtg	catgcacaaa	tggatgtgaa	gctccgctca	2160
ctgatctgcg	tggggctcaa	tgagcaggtg	ctgcacctgt	ggctggagggt	gctctgctcc	2220
agcctgcccc	ccgtggagaa	gtgggtaccag	ccctggctct	tcctgcgcag	cccggtctgg	2280
gtccagatca	agtgtgagct	ccgagtcctc	tgctgctttg	ccttcagcct	ctcccaggac	2340
tgggagctcc	ctgcgaagag	agaggcgcag	cagccctga	aggagggcgt	ccgggacatg	2400
ctgggtgaagc	accacctctt	cagctgggat	gtggacgggt	gacccctcc	tcccagccc	2460
aacctcgggc	ctgcgtctga	ggtggcccag	gaccccaagc	tgcagagccc	agggaagagc	2520
agctccagag	ccctggcccg	ggccgcggga	tatcaatatc	aggctgcccc	actccagtt	2580
ccccagcaca	tcccagggtg	tgggagcaga	gggtaccctg	ccccaccagg	gtccttaggg	2640
atgctctagg	ccaaaccaca	gtttgtacca	aaaaccttgt	gaggaggtgg	gggagccatg	2700
tctgtgctca	ggaagaggga	aggggatggg	ggtggctagt	aggctcctgg	cctctttggg	2760
ttataaataa	actgtgtctg	tctttgagaa	aaaaaaaaaa	a		2801

<210> 59
 <211> 599
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2162179CB1

aggttatcgt	taggcattctc	ccaggcgacc	ggctccgcag	caagatggcg	gacgagaagg	60
acagggaaga	gataatagta	gcagaatttc	acaaaaaaat	caaagaggca	tttgaagtct	120
ttgaccatga	gtcgaataat	acagtggatg	tgagagagat	tggacaatt	atcagggtcat	180
taggatgctg	tcctacggaa	ggagagctgc	atgatctgat	tgcaaggta	gaggaagaag	240
aaccactgg	atacattcga	ttcgaaaaat	ttcttccggt	gatgacagaa	atactactag	300
aaagaaaata	cagaccaatt	ccagaagatg	tccttcttcg	agcttttgag	gttttagatt	360
cagctaaacg	tgggtttctt	actaaggacg	agctgatcaa	gtatatgact	gaagaaggta	420
agtgtgattt	attacttatc	acaatgactt	atgtgaggaa	ttaataattt	gttaacagtt	480
atgcgaaagt	tataggggat	actttaaaa	cagtcattct	ggtgaaagtt	attactgtt	540
ccagcctggg	cgacagagca	agactccatc	tcacaaaaaa	aaaaaaaggg	gggggaggg	599

<210> 60
 <211> 2065
 <212> DNA
 <213> Homo sapiens

WO 00/77040

PCT/US00/16636

<220>
 <221> misc_feature
 <223> Incyte ID No: 2244706CB1

<220>
 <221> unsure
 <222> 2060-2061
 <223> a, t, c, g, or other

<400> 60
 gtaattactg gaaccacaga aaattcacct gcagatcggt gcaagaaaat ccatgctggc 60
 gatgaagtga ttcaagttaa tcatcagact gtgcctctta tacctagaag tcccacaagc 120
 agcgtttgcca cgccttcag caccatcagt acaccacca aaagagacag ttctgcccctc 180
 caggatctct acattcccc tctctctgca gaaccatata ttcccaggga tgaaaaagga 240
 aaccttcctt gtgaagacct cagaggacat atggtgggca agccagtgc taagggatct 300
 gaatcaccaa attcatttct ggatcaggaa tatcgaaaga gatttaatat tgtcgaagaa 360
 gatactgtct tatattgcta tgaatatgaa aaaggaagat caagtagtca aggaagacga 420
 gaaagcaccc caacttatgg caagctacga cctatatcta tgccagtggg atataattgg 480
 gtggggggact atgaagatcc aaataagatg aagagagata gtagaagaga aaactctcta 540
 ctccgggtata tgagcaatga aaagattgct caagaagaat acatgtttca gagaaacagc 600
 aaaaaggaca cagggaagaa gtcaaaaaag aaggggtgata agagtaatat cccaactcac 660
 tattcattgc tacctagttt acaaatggat gcactgagac aagacatcat gggcactcct 720
 gtgccagaga ccacactata ccatacattt cagcagtcct cactgcagca caaatcaaag 780
 aagaaaaaca aggttcctat agcaggcaag agcaaaagac gaatttcttg caaagatctt 840
 ggccgtggtg actgtgaggg ctggcttttg aaaaagaaag atgcgaagag ttacttttca 900
 cagaaatgga aaaaatattg gtttgtccta aaggatgcat ccctttattg gtatattaat 960
 gaggaggatg aaaaagcaga aggattcatt agcctgctg aattttaaata tgatagagcc 1020
 agtgaatgcc gcaaaaaata tgcattcaaa gcctgtcatc ctaaaatcaa aagcttttat 1080
 tttgctgctg aacatcttga tgatatgaac aggtggctta acagaattaa tatgctgact 1140
 gcaggatatg cagaaagaga gaggattaag caggaacaag attactggag tgagagtgc 1200
 aaggaagaag cagatactcc atcaacacca aaacaagata gccctccacc cccatatgat 1260
 acataccacac gacctccctc gatgagttgc gccagtcctt atgtggaagc aaaacatagc 1320
 cgactttcct ccacggagac ttctcagttc cagtcttctc atgaggagtt tcgccaggaa 1380
 gtaactggga gcagtgcagt gtctcccatc cgcaagacag ccagtcagcg ccgctcctgg 1440
 caggatttaa ttgagacgcc actgacaagt tcaggcttac actatcttca gactctgccc 1500
 ctggaggatt ctgtcttctc tgactccgcg gccatctccc cagagcacag gcggcagttc 1560
 accctgccaa ctgagaaatg ccacctgcag gatcactatg ggccataccc cttagctgag 1620
 agtgagatga tgcaagtgc aaatggaaat gggggcaagc ctgcaagggt tactctgcct 1680
 cgagatagcg ggttcaacca ttgctgtctg aatgctccag ttagtgccct tgacccacag 1740
 gatcagctgc aaccaccaga ggtggaggaa gaggaggagc atgaggagga agcatgggag 1800
 gcagccggtg gaaacatggg agaaaaaagc ctattcactg cgagagtggg tagacctttc 1860
 atgcaaaacg gatccactct gtggcactaa ccattggact acagattata ccaatgttag 1920
 agattagatt ggaaattggg gtgctggattc ggttaacctc tggtacctgg ctctaggggg 1980
 gccgtccaat tgcttcagta gtgtttcgcg gcccggcgtg tttaaagtgt atgggaactg 2040
 ggtcccatga gcctgagcan ncccc 2065

<210> 61
 <211> 2330
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2316805CB1

<400> 61
 gctttgcaga gtgattatca gcacagttcc ctgccctgga taaggaaacag ctacagtcgc 60
 tgttaaattg gcctgaaaag caatttgcaa tctttgcatt aggatttcag atgcatgcca 120
 ggtttccact gattgccaga actcgagatc actacacatg gatcccaaaa atcaacatgg 180
 cagtggcagt tcgttagttg tgatccagca gccttctttg gatagccgtc agagattaga 240
 ctatgagaga gagattcagc ctactgctat tttgtcctta gaccagatca aggccataag 300
 aggcagcaat gaatacacag aagggccttc ggtggtgaaa agacctgctc ctccggacagc 360
 accaagacaa gaaaagcatg aaaggactca tgaaatcata ccaattaatg tgaataataa 420
 ctacgagcac agacacacaa gccacctggg acatgcagta ctccaagta atgccagggg 480
 ccccatTTTT agcagatcaa ccagcactgg aagtgcagcc agctctggga gcaacagcag 540
 tgctctctct gaacagggac tgttaggaag gtcaccacca accagaccag tccctgggtc 600
 taggtctgaa agggcaatcc ggacccagcc caagcaactg attgtggatg acttgaaggg 660

WO 00/77040

PCT/US00/16636

ttccttgaaa	gaggacctga	cacagcacaa	gttcatttgt	gaacagtgtg	ggaagtgcaa	720
gtgtggagaa	tgcactgctc	ccaggaccct	accatcctgt	ttggcctgta	accggcagtg	780
ccttttgctct	gctgagagca	tggtggaata	tggaacctgc	atgtgcttag	tcaagggcat	840
cttctaccac	tgctccaatg	acgacgaagg	ggattcctat	tcagataatc	cttgctcctg	900
ttcacaatca	cactgetgct	ctagatacct	gtgtatggga	gccatgtctt	tatttttacc	960
ttgcttactc	tgttatcctc	ctgctaaagg	atgcctgaag	ctgtgcagga	ggtgttatga	1020
ctggatccat	cgcccagggt	gcagatgtaa	gaactccaac	actgtctatt	gtaagctgga	1080
gagctgcccc	tcccggggtc	agggtaaacc	atcatgattt	ttggagggtg	gttgacctc	1140
ctgaacttct	agctttcaag	ttgtggctgt	tttttgtttt	tgtttttggt	tttgttttct	1200
ttagaatttt	tccctgtttc	ccaccttctc	ttccctgtt	gccaaaggct	aactcatgga	1260
ttttttctct	tccctcatgga	tgatcttcag	caagagtggga	ctgggaagct	gcacctggct	1320
cccactttca	acaagaccct	ctgccatcca	cttgagggtg	ttgagagcca	gtgggctttt	1380
gtgtagcctt	tttgttctgc	aagcaacttt	ctaaagtgtg	gtacatgaac	atacaccac	1440
atccagacta	cagtgtttta	gagttgtttt	gattgggtac	cgtgggagca	gggaaattgg	1500
ttttttaaaa	agcaactggt	taattgctta	aataagctat	gtattaaatc	tgtctccagt	1560
tagggctatc	ttcctagcat	aggccccctt	agtagcatgg	gggatatatt	tttgctata	1620
acgtaaaaat	tttcctttta	ccactgcctt	ctccttcttt	ctccttcaag	gttctttccc	1680
cctcagtttt	gttggtgtct	tactctggag	atgccaaagt	tattttttct	ttctatgtaa	1740
ttttagattc	gccttacaat	gtaaatcttc	acattggaga	taatatgggt	tggaacctgc	1800
ccatcttcac	tctagccttc	gtattttgtg	aggactcagc	caccttcctt	cttcacccca	1860
tgctttctac	caaaattttg	ttgtcattga	gggcacttgg	ataactcaag	ttgatattta	1920
tagctgatca	atctatatgt	gtcacagaac	tatgtctgct	aaagtgatct	tggtctctta	1980
atggctcctt	tggtcccttg	gatagttaac	agctgagtaa	ttctaattct	ttctgtgttt	2040
tccttgccct	aaccacaaat	tgtgggtgct	tttgatatatt	ttatgtataa	atcacaaagt	2100
tgaattctga	ctatttttaa	gacaaaagtc	tgttaaactt	ttttattgta	aagaatattt	2160
attatgcgaa	tctctattat	tttatgggat	tattgtcaaa	agactgttga	aatgtactca	2220
tgtttgaata	taacaaaata	tcaatactta	acggaaaata	aggtgacacg	aagaaagtac	2280
atatgttaac	tataatgcag	aaaatatatt	aattaatgaa	aaaaaaaaaa		2330

<210> 62

<211> 2610

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2320010CB1

<400> 62

aagtatgctt	gtttcacttt	agatatatgg	ggaaaagaaa	catagcaagg	gtgcatgatg	60
cctggctgtc	aaaacacttc	ggaatagacc	gaaaatcgca	aaccatgcct	gctcttcgaa	120
acagatcagg	agtaatgcag	gcccggcttc	agcatcttag	tagcctagaa	agttcattta	180
cacttaaatca	cagtctctaca	acaactgaag	cagacatttt	ccaccaggca	cttcttgccg	240
cgaatacagc	tactgaagtt	tcctaacag	tactagacac	catatcattt	ttcactcagt	300
ggttcaagac	ccaactttta	aataatgatg	gccataacct	attaatgaaa	aaagtgtttg	360
atatacatct	tgctttttct	aaaaatggac	aatctgaagt	gtcgttgaaa	catgtatttg	420
cctcactgag	agcttttcac	agtaagtttc	cttcagcatt	tttcaaagga	agagtaaaca	480
tgtgtgctgc	attttgctat	gagggtttta	agtgtctcac	atcgaagatt	agctcaacca	540
ggaatgaagc	atctgcactt	ttgtatcttt	tgatgagaaa	caactttgag	tataccaaaa	600
ggaaaaacct	tttgaggaca	catctacaga	taataattgc	tgtaagccaa	ctgatagctg	660
atgtagcact	aagcggagga	tcaagatttc	aggagtcttt	attcattatc	aataattttg	720
caaatagtga	cagacctatg	aaggcaactg	cctttcccgc	agaagtcaaa	gacttgacca	780
agagaatccg	cactgttctt	atggccactg	cccaaataaa	ggagcatgag	aaagacctg	840
aaatgctaata	tgatctccag	tatagcttag	ccaagtccca	tgcaagcacc	ccagagctca	900
ggaaaaacct	gcttgatagc	atggccaaga	ttcatgtaaa	aaatggagat	ttttcagagg	960
ctgcgatgtg	ttatgtccat	gtagcagctc	tagttgcaga	gtttcttcat	cgaaaaaaat	1020
tatttctctaa	cggtgtttca	gcgttcaaga	aaattactcc	caatatagat	gaagaaggag	1080
caatgaaaga	agatgctggg	atgatggatg	tccattatag	tgaagagggt	ttgctggagt	1140
tgctagaaca	atgtgtggat	ggcttatgga	aggcagaacg	ttatgaaata	tttcttgaga	1200
tttccaaagt	gatcgtttcca	atztatgaga	aacgtcgtga	gtttgagaaa	cttactcaag	1260
tttatagaac	tcttcatgga	gcttacacaa	aaattctgga	agttatgcat	acaaaaaaga	1320
gacttttagg	cactttcttc	agagttgcct	tttatggcca	atcttttttt	gaagaagaag	1380
atggaaaagga	gtacatctat	aaagaaccaa	agctcactgg	cctctcagaa	atttcttgga	1440
gacttgttaa	actttatggg	gaaaagtttg	gtacggagaa	tgtcaaaaata	attcaggatt	1500
cagacaaggt	aaatgccaaa	gagcttgatc	caaaaatagc	tcatatacaa	gttacttatg	1560
tgaagcctta	ctttgatgac	aaagaactca	cagaaaggaa	gaccgagttt	gaaagaaatc	1620
ataatatcag	cagatttggt	tttgaggccc	cttacacttt	atcaggcaaa	aaacagggct	1680

WO 00/77040

PCT/US00/16636

```

gtatagaaga acagtgcaaa cgccgtacaa tcttgacaac ttcaaaactcg tttccttacg 1740
tgaagaagag gattcctatt aactgtgaac agcagattaa tttaaaacca attgatgttg 1800
ccactgatga aataaaaagat aaaactgcag agctgcaaaa gctttgctcc tctactgacg 1860
tggacatgat tcagctccaa cttaaattgc agggctgtgt ttctgtgcag gtcaatgctg 1920
gtccattagc atatgcaaga gctttcttaa atgacagcca agctagcaag tatccaccta 1980
agaaagtgag tgagttgaaa gacatgttta ggaaatttat acaagcatgc agcattgcac 2040
ttgaactaaa tgagcggcta attaaagaag atcaagttga gtaccatgaa gggctaaagt 2100
caaatttcag agacatggta aaagaattat ctgacattat ccattgagcag atattacaag 2160
aagacacaat gcattctccc tggatgagca acacattaca tgtattttgt gcaattagtg 2220
gtacatcaag tgaccgaggt tatgggtccc caagatacgc tgaagtgtga ggcaatgcag 2280
atgtacgtga caatgagact gacctttctc aggaatattt ggagctgtgc aaatgttaaa 2340
atttaaagat ttgatataca tggagtgttt cttctcgaca ccaaaatttt catgtgttcc 2400
agcaggggtg ttacatattt gttaaataag aacttgaaag tgccctggaaa attgcaccac 2460
tgtgttttgt ttgtactttt ttaggtaaat ctatatgctg aaaagtagag ctcaaaaaca 2520
gtagttcaat ttgcttaatt attgcttaaa ataatggtac tatgtaaaaa tgtataatgg 2580
aatacaataa aaggtaaaac ttaaaacaaa                2610

```

<210> 63

<211> 1035

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2564901CB1

<400> 63

```

agtccacctt gcgaccgtat ccgctagcgc ggccctgggat ggccttgggc tccctgttcg 60
tccccacatg cagggcgagca caaggagaat gggcgctcatg actgatgtcc accggcgctt 120
cctccagttg ctgatgaccc atggcggtgct agaggaatgg gacgtgaagc gcttgcagac 180
gcactgctac aaggtccatg accgcaatgc caccgtagat aagttggagg acttcatcaa 240
caacattaac agtgtcttgg agtccttgta tattgagata aagagaggag tcacggaaga 300
tgatgggaga cccatttatg cgttgggtgaa tcttgcctaca acttcaattt ccaaaatggc 360
tacggatttt gcagagaatg aactggattt gtttagaaaag gctctggaac tgattattga 420
ctcagaaaac ggctttgcgt ctccacaaa catattgaac ctggttgatc aacttaaagg 480
caagaagatg aggaagaagg aagcgggagc ggtgctgcag aagtttgttc aaaacaagtg 540
gctgattgag aaggaagggg agttcacccg gcacggcggg gccatcctgg agatggaaca 600
atacatccgg gagacgtacc ccgacgcggg gaagatctgc aatatctgtc acagcctcct 660
catccagggg caaagctgcg aaacctgtgg gatcaggatg cacttaccct gcgtggccaa 720
gtacttccag tcgaatgctg aaccgcgcgt cccccactgc aacgactact ggccccacga 780
gatcccaaaa gtcttcgacc ctgagaagga gaggagatct ggtgtcttga aatcgaacaa 840
aaagtccttg cgggtccaggc agcattagcc atcgtgcctt gctgaggggc tggctgcctt 900
gagtggcctg atcgccacag cccttcttgg aagaaaggcg tctgtgttcc aggttccacg 960
cgagtcacct ctttcgtctt aatgttcacc gtccacagct ttggaataaa ccatcctggg 1020
aaaaaaaaa aaaaaa                1035

```

<210> 64

<211> 1838

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2615168CB1

<400> 64

```

tgagtggagt tcaactcacat ggattgaggc ccagttcctg ggagaagaga tgctgggcag 60
gaaggtgtct gcatgtggga ctctgtacag cccggtcctc tcccacatct gggagggggc 120
agagtcagac aactgctggg ttcgtcccta agagaggtca tctgactggc tgttcagcct 180
aggctgcaca cacccccact ttcctctacc aggcacacc ggaggcagtg ctcacacagg 240
caagctacca ggccacaaca acgacaccca cctcacctct ggcacctctg agcatccacg 300
tacttgcaag aactcttgct cacatcagct aagagattgc acctgctgac ctagagattc 360
cggcctgtgc tcctgtgctg ctgagcaggg caaccagtag caccatgtct gtgactggcg 420
ggaagatggc accgtccctc acccaggaga tctcagcca cctgggcctg gccagcaaga 480
ctgcagcgtg ggggaccctg ggcacctca ggaccttctt gaacttcagc gtggacaagg 540
atgcgcagag gctactgagg gccattactg gccaaaggcg ggaccgcagt gccattgtgg 600
acgtgctgac caaccggagc agagagcaaa ggcagctcat ctcacgaaac ttccaggagc 660

```

WO 00/77040

PCT/US00/16636

```

gcaccaaca ggacctgatg aagtctctac aggcagcact ttccggcaac ctggagagga 720
ttgtgatggc tctgctgcag cccacagccc agtttgacgc ccaggaattg aggacagctc 780
tgaaggcctc agattctgct gtggacgtgg ccattgaaat tcttgccact cgaacccccc 840
cccagctgca ggagtgcctg gcagctctaca aacacaattt ccagggtggag gctgtggatg 900
acatcacatc tgagaccagt ggcattcttgc aggacctgct gttggccctg gccaaagggg 960
gccgtgacag ctactctgga atcattgact ataactctggc agaacaagat gtccaggccc 1020
tgcagcgggc agaaggacct agcagagagg aaacatgggt cccagtcttc acccagcgaa 1080
atcctgaaca cctcatccga gtgtttgagt agtaccagcg gagcactggg caagagctgg 1140
aggaggtgt ccagaaccgt ttccatggag atgctcaggt ggctctgctc ggcttagctt 1200
cgggtgatcaa gaacacaccg ctgtactttg ctgacaaact tcatcaagcc ctccaggaaa 1260
ctgagcccaa ttaccaagtc ctgattcgca tccttatctc tcgatgtgag actgaccttc 1320
tgagtatcag agctgagttc aggaagaaat ttgggaagtc cctctactct tctctccagg 1380
atgcagtgaa aggggattgc cagtcagccc tcttggcctt gtgcagggtc gaagacatgt 1440
gagacttccc tgccccaccc cacatgacat ccgaggatct gagatttccg tgtttggctg 1500
aacctgggag accagctggg cctccaagta ggataacccc tctactgagca ccacattctc 1560
tagcttcttg ttgaggtctg aactgtttct ttaaaatccc ttaattttcc catctcaaaa 1620
ttatatctgt acctgggtca tccagctcct tcttgggtgt ggggaaatga gttttctttg 1680
atagtttctg cctcactcat cctcctgta ccctggccag aacatctcac tgatactcga 1740
attcttttgg caaacttcgc tgttgtttgt gtccctgat tgaaggttgg gtggagcagg 1800
acatggaccg ggaagaggca ctggagtgtg aggtgcct 1838

```

<210> 65

<211> 1689

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2658329CB1

<400> 65

```

tcacgtcggc cggagctagc gctgcgtcct gggccacgcc tcccggcgca ccgacgcgcc 60
tctccggtta ctaagcggcc ttggatacct ggccgcggga tgctgggcgg cgtcaggtaa 120
ccatggagaa agagctgcgg agcaccattc ttttcaatgc ctacaaaaag gagatattta 180
ccaccaaaaa tggctacaaa tccatgcaga aaaaacttcg gagtaattgg aagattcaga 240
gcttaaaaga cgtgagaaac tctgagaagt taaatggagt aaaactgtgg attacagctg 300
ggccaaggga aaaatttact gcagctgagt ttgaaatcct gaagaaatat cttgacactg 360
gtggagatgt ctttgtgatg ctaggagaag gtggagaatc cagatttgac accaatatta 420
actttttact agaagaatat ggaatcatgg ttaataatga tgctgtggtt agaaatgtat 480
atcacaaaat tttccatcct aaagaagctc tagtttccag tggagtcttg aacagggaaa 540
ttagccgaga tgcaggaaag gctgtgcctg ggatcattga tgaggaaagc agtggaaca 600
atgcccaggc tctcaccttt gtgtatcctt ttggtgccac attgagtgtc atgaaaccag 660
cagtggcggt tctgtctaca ggttctgtct gcttcccact taacagaccc attttggctt 720
tctatcactc aaagaaccaa ggtgggaagc tggcagtgct tggttcatgt cacatgttca 780
gtgatcaata ttggacaaa gaagaaaaca gcaaaatcat ggatgttgtt ttcagtggtc 840
tcacgacagg agacatccac cttaaaccaga ttgatgtgta ggaccagag atttctgact 900
acatgatgct gccctacaca gccaccctat caaagcggaa tcgagagtgt ctccaggaga 960
gtgatgagat cccaagggac tttaccacce tcttcgacct gtccatcttc cagctggata 1020
ccacctcctt ccacagcgtc atcgaggctc acgagcagct aaatgtgaaa catgaaccac 1080
tccagctcat ccagcctcag tttgagacgc cgctgccaac ccttcagcct gcggtttttc 1140
ctcccagttt cggggagtta ccacctcttc ctctggagct atttgattta gatgaaacgt 1200
tctcctctga gaaggcacgg ctggctcaga ttaccaataa gtgtactgaa gaagacctgg 1260
aattttatgt caggaagtgt ggtgatattc ttggagtaac cagtaaaacta ccaaaggacc 1320
aacaggatgc caaacatatc cttgagcacg tcttcttcca agtgggtggag ttcaagaaat 1380
tgaaccagga acatgacatc gatacaagtg aaacagcatt ccagaacaat ttctgaagac 1440
catgcctctt gaagcttttt ctgctctctg attctctctt tgtaaactat tttcaaattg 1500
tttttcaact ccttatcaaa attgtttata cactctttcc tccatgagct ctggaaggta 1560
tatgcatctt ctgtaatact cagataggta taagattttt cacaaaaatcc ttatgtaaga 1620
tacattccat ttttaaaaaa taaatgtatg gttgcactct tctttttata ccctaaaaaa 1680
aaaaaaaaa 1689

```

<210> 66

<211> 1788

<212> DNA

<213> Homo sapiens

<220>

WO 00/77040

PCT/US00/16636

<221> misc_feature

<223> Incyte ID No: 2708944CB1

<400> 66

```

cgagctcgcc cgctgtccgc cagcccgcg gagggaggag agaagcgacg atgtccgagg 60
ttggctactc agtgtcttgg tctcaagttg cctcattgcg gctggcggtc ccaatacaga 120
cgcatcgttt cttttttaat actccctaag aaaggggaata accttcaagc tggcggggagc 180
aatgggtcac ataaagaaaag gcgagctgac ccaggaggag aaggagctac tggaaagtcac 240
cgggaaagggt actgtccaag aagctggaac attattatcc agcaagaatg ttcgtgtcaa 300
ctgtttggac gagaatggaa tgactcctct aatgcatgca gcatataaag gaaaactgga 360
tatgtgcaaa ttactcctgc gacatggagc cgatgtaaat tgatcatcagc atgaacatgg 420
atacacagcc ctcatgtttg ctgcactttc tggtaataaa gacatcacat gggtaatggt 480
agaagctggg gctgagacag atgttgtcaa ctctgtggga agaacagcag ctcatggtgc 540
agcctttgtg ggtcaacatg attgtgtgac cataatcaac aatttctttc ctcgagagag 600
actggattat tacactaagc cccaggggact ggataaagag ccaaaactgc ccccaaagtt 660
ggcaggcccg ctgcacaaaa ttatcaccac aacgaatctt catcctgtca agatcgtgat 720
gcttgtaaat gagaatcctc tgctgacaga agaagcagcc ctgaataaat gctacagagt 780
gatggatttg atttgtgaga aatgtatgaa gcaaagagac atgaatgaag tattggctat 840
gaagatgcat tacataagct gtatctttca gaaatgcatt aacttcttaa aagatggaga 900
gaataaactg gacaccttga tcaaaagctt gttaaaaggc cgagcttctg atggctttcc 960
agtgtatcaa gaaaagatca ttagagaaaag tatcagaaaa tttccttact gtgaagctac 1020
actcctccag cagctgggtc gaagcattgc tctgttgaa attggttctg atcccactgc 1080
attctccgtc cttaccceaag ccctcactgg ccagggtgggt tttgtggatg tggaaattttg 1140
cactacctgt ggagaaaagg gagcaagtaa aagatgttca gtttgcaaaa tggtaataata 1200
ttgtgatcaa acctgccaga aaacacactg gtttactcat aagaaaatct gtaagaatct 1260
gaaggacatt tacgaaaagc aacagttgga ggctgcaaaa gaaaagagac aagaggaaaa 1320
ccacggcaaa ctgtatgtca attctaactg tgtaaatgaa gagcaaccag aggtgaagt 1380
aggttactct caaaaggatt ccaatcctga gatctcggg gaaggaaaga aagaatctct 1440
tgaaagcgaa gctgagttgg aaggcttaca ggatgctcct gcaggggccac aggtgtctga 1500
ggagtaaaag ccagagcaag tgccagtgtg gatggctcct accctgcaag aagctggaaa 1560
actcctagga atgcattgtc ctcacctgtg tatacctgcg tggcaccatg gcaggattcc 1620
acatttcata gaatacaggt tttcaagcaa accctgtttg accatgccct aatttccctat 1680
tgattttctg tgtataattg aatggatatt cctatggaaa attttttgtt tcaaaataca 1740
ggaaaaacat tcctattacc tttctgagggc tggctttcca gcaattgt 1788

```

<210> 67

<211> 2160

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3315012CB1

<400> 67

```

atgtctacgc cgcccggtcg cctcctccgg acctccgtag cgcttgccgc ggccctgggt 60
gcggcgctgc tctcgctcgt tgcgcgctgc tctcttctag agccgagggg cccggtggcc 120
tcgtcgctca gccctatttt cggcaccacg actcgctacg aggatgtcaa ccccggtgcta 180
ttgtcggggc ccgagggtcc gtggcgggac cctgagctgc tggagggggac ctgcaccccg 240
gtgcagctgg tcgccctcat tcgccacggc acccgctacc ccacggtcaa acagatccgc 300
aagctgaggg agctgcacgg gttgctgcag gcccgcggtt ccagggatgg cggggctagt 360
agtaccggca gccgcgacct ggggtgcagcg ctggccgact ggcttttgtg gtacgaggac 420
tggatggacg ggcagctagt agagaaggga cggcaggata tgcgacagct ggcgctgcgt 480
ctggcctcgc tcttcccggg tcttttcagc cgtgagaact acggccgcct gcggtctatc 540
accagttcca agcaccgtcg catggatagc agcgccgcct tctgtcaggg gctgtggcag 600
cactaccacc ctggcttgcc gccgcgggac gtcgcagata tggagtttgg acctccaaca 660
gttaatgata aactaatgag attttttgat cactgtgaga agtttttaac tgaagtagaa 720
aaaaatgcta cagctcttta tcacgtggaa gccttcaaaa ctggaccaga aatgcagaac 780
attttaaaaa aagttgcagc tactttgcaa gtgccagtaa atgatttaaa tgcagattta 840
attcaagtat ctttttcac ctgttcaatt gacctggcaa ttaaagggtg taaatcctc 900
tgggtgtgat tttttgacat agatgatgca aaggtattag aatatttaaa tgatctgaaa 960
caatattgga aaagaggata tgggtatact attaacagtc gatccagctg caccttgttt 1020
caggatatct ttcagcactt ggacaaagca gttgaacaga aacaaaggtc tcagccaatt 1080
tcttctccag tcacctccca gtttggtcat gcagagactc ttcttccact gctttctctc 1140
atgggctact tcaaagacaa ggaaccctca acagcgtaca attacaaaaa acaaatgcat 1200
cggaagttcc gaagtgggtc cattgtacct tatgcctcga acctgatatt tgtgctttac 1260
cactgtgaaa atgctaagac tcctaaagaa caattccgag tgcagatggt attaaatgaa 1320

```

WO 00/77040

PCT/US00/16636

```

aagggtgttac ctttggctta ctcacaagaa actgtttcat tttatgaaga tctgaagaac 1380
cactacaagg acatccttca gagttgtcaa accagtgaag aatgtgaatt agcaagggct 1440
aacagtacat ctgatgaact atgagtaact gaagaacatt ttaattctt taggaatctg 1500
caatgagtga ttacatgctt gtaataggta ggcaattcct tgattacagg aagctttttat 1560
attacttgag tatttctgtc ttttcacaga aaaacattgg gtttctctct ggggttggac 1620
atgaaatgta agaaaagatt tttcactgga gcagctctct taaggagaaa caaatctatt 1680
tagagaaaca gctggccctg caaatgttta cagaaatgaa attcttctta cttatataag 1740
aaatctcaca ctgagataga attgtgattt cataataaca cttgaaaagt gctggagtaa 1800
caaaatatct cagttggacc atccttaact tgattgaact gtctaggaac tttacagatt 1860
gttctgcagt tctctcttct tttcctcagg taggacagct cttagcattt cttaatcagg 1920
aatattgtgg taagctggga gtatcactct ggaagaaaagt aacatctcca gatgagaatt 1980
tgaaacaaga aacagagtgt tgtaaaagga caccttcact gaagcaagtc ggaaagtaca 2040
atgaaaataa atatttttgg tatttattta tgaaatattt gaacattttt tcaataattc 2100
ctttttactt ctaggaagtc tcaaaagacc atcttaaatt attatatgtt tgggacaata 2160

```

<210> 68
 <211> 1156
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 4155412CB1

```

<400> 68
ctgagacgag cgggagcgcg gacagcagcc tctgtgccc tgacttttta agaaatctca 60
atgaactatt tgtagagaat cactgatccg gcctgcaagc attttgcacg gcaaaaatat 120
cgatcagtggt taagtgaaga tcacatttta tatgcatctt tgactttttt gtcttacatt 180
atatttttat agattttgtt ataaacatgg tgctgggaaa ggtgaagagt ttgacaataa 240
gctttgactg tcttaatgac agcaatgtcc ctgtgtattc tagtggggat accgtctcag 300
gaagggtaaa tttagaagtt actggggaaa tcagagtaaa atctcttaaa attcatgcaa 360
gaggacatgc gaaagtacgc tggactgaat ctagaaacgc cggctccaat actgcctata 420
cacagaatta cactgaagaa gtagagtatt tcaaccataa agacatctta attgggcacg 480
aaagagatga tgataattcc gaagaaggct tccacactat tcattcagga aggcattgaat 540
atgcattcag ctctcagcct ccacagacac cactcgctac ctcatcgaag ggccgacatg 600
gcagtgtgcg ctattgggtg aaagccgaat tgcacaggcc ttggctacta ccagtaaaat 660
taaagaagga atttacagtc tttgagcata tagatataca cactccttca ttactgtcac 720
cccaagcagg cacaaaagaa aagacactct gttgtctggt ctgtacctca ggcccaatat 780
ccttaagtgc caaaattgaa aggaagggct ataccccagg tgaatcaatt cagatatattg 840
ctgagattga gaactgctct tcccgaatgg tgggtgccaa gcagccattt accaaacaca 900
ggccttctat tgctaaaggg aaattgagg agctaaacag cttgtgggta acatgcgtgg 960
ggaattcctt aacatctgga aagaaccggg acgtggaaat ggccagtttg ctgaaaattt 1020
ccaacagttt tccccctcc aatgcttcga actgaaggaa taatcccggc tgggaataat 1080
ccactcaatg ggtaaaatgg tgggaaaatc ccctggagcc aatggaattt aaattcctct 1140
aaatttggcc cacttg

```

<210> 69
 <211> 1981
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 4831840CB1

```

<400> 69
ggctggggaa gatggcggtg gctggggcgg tgtccgggga gccgctggtg cactggtgca 60
cccagcagtt gcggaagact ttcggcctgg atgtcagcga ggagatcatt cagtacgttt 120
tgtcaattga gagtgctgaa gagatacgag aatatgttac tgatctctc cagggaaatg 180
aaggcaaaaa aggtcaattc atagaagaac atggaacaa atggcaaaaag aatgatcagg 240
agttgatttc ggatcctttg cagcagtgct tcaaaaaaga tgaaatttta gatgggcaga 300
aatcaggcga ccatctaaag cggggtagga agaaaggag aaacagacag gaagtccctg 360
catttactga acctgacacg actgcagagg ttaaaacacc ttttgatttg gccaaggcac 420
aagagaacag caactccgta aagaagaaga caaagtttgt caatttatac acaagagagg 480
gacaggacag gcttgagtc ctgctccctg tgcgtcaccc ttgtgattgc ctgggccaga 540
agcacaagct catcaataac tgtctgatct gtgggcgcat tgtctgtgaa caagaaggct 600
caggcccttg cttattctgt ggcactctgg tgtgtactca tgaggaacaa gatattttac 660

```


WO 00/77040

PCT/US00/16636

```

agcgtgactc aaacaagagc cagaaactgc taaagaaact catgtcagga gtggagaatt 720
ctggaaagggt ggacatctct accaaggacc ttcttctctca tcaagaattg cgaattaaagt 780
ctggctctgga gaagcgtatc aagcataaag acaaactgtt agagtttgac agaactagta 840
ttcgaaggac ccaagtcatt gatgatgagt cagattactt tgccagtgat tctaaccaat 900
ggttgtccaa acttgagcgg gaaaccttgc agaagcgaga ggaggagctg agagaacttc 960
gacacgcctc tcgactttct aagaaggcca ccattgactt tgcaggaagg aagatcctgg 1020
aagaagaaaa ttactatgca gagtatcata gcagactaga tgagacaata caggccattg 1080
ccaatggaaac cttgaaccag ccactgacca aattggatag atcttctgaa gagcctttgg 1140
gagttctgggt aaatcccaac atgtaccagt cccctcccca gtgggttgac cacacagggtg 1200
cagcctcaca gaagaaggct ttccgttctt caggatttgg actagagttc aactcatttc 1260
agcaccagtt gcgaatccag gatcaagaat ttccaggaagg ctttgatggt ggctgggtgcc 1320
tctctgtaca tcagccctgg gcttctctgc ttgtcagagg gattaaaagg gtggagggca 1380
gatectggta cccccccac agaggacgac tttggatagc agccacagct aaaaaaccct 1440
cccctcaaga agtctcagaa ctccaggcta catatcgtct tcttcgtggg aaagatgtgg 1500
aatttcttaa tgactatccg tcaggttgtc ttctgggctg tgtggacctt attgactgct 1560
tgtcccagaa gcaatttaag gagcagtttc cagacatcag tcaagaatct tatttccat 1620
ttgttttcat ctgcaaaaaa cctcaggaaa tggttgtgaa gtttcttatt aaaggaaatc 1680
caaaaatctg gaaattggat tccaagatcc atcaaggagc aaagaagggg ttaatgaagc 1740
agaataaagc tgtctgacct aggagaaaag gaactataca gcatagtggg gttttgtgta 1800
ctaaaattgc tatctactgg tcctttggaa ttgaagtagt agaaacctaa aggcttggcg 1860
tcaggcttga atatctcaga acttaaacac ttacaaaaat ctgtatatatt ttcttaagga 1920
gtgggattcc tactttatgt aatggggctg aaatctttga acacattatt tataaaaacc 1980
a

```

<210> 70

<211> 1832

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 5676581CB1

<400> 70

```

cctagagttg ttcagaatcc tccaaaacca gtcattgacca ctagaccac agctgttaaa 60
gcaacaggcg gtctatgctt gcttgggtgct tatgttgaca gtgatgacga tgacaatgat 120
gtttccgaaa aactagcaca atccaaagag acaaatggaa accagtcaac tgatattgat 180
agtacattgg ccaacttcct agcggagatc gatgccataa cagctcctca gcctgcagct 240
cctgtaggag cttctgtctc acctccaact ccacctcgac cagagccaaa ggaagcagca 300
acatctacc tttcttcttc tacttcaaact ggaacagact ccacccaaac atctggttgg 360
caatatgata ctcatgtgtc actggcagga gtcggaattg agatgggcca ttggcaggaa 420
gtctgggatg agaacacggg atgttattat tattggaata cacaacaaa tgaagtgact 480
tgaggagttac cccaatatct tgccacacag gtacagggat tacagcatta ccagccagct 540
tctgtgccag gtgctgaaac tagttttgtg gtaaatatag acatatattc taaggagaaa 600
acgatttctg tttccagtag taaaagtgga cagtcataag ccaagcgaga agttaaagg 660
gaagtaaatg aagggaattca ggctctctca aatagttagg aggagaagaa aggggtggca 720
gcatcgctgc ttgctccttt attgcctgag ggaataaaaag aagaagaaga gagatggaga 780
agaaaagtaa tttgtaaaga ggagccagtt tcagaagtaa aagaaacaag tacaacagta 840
gaagaagcaa caacaatagt aaagccacag gaaattatgt tggacaatat agaagaccct 900
tctcaggagg atctttgcag tgttgtccaa tctggagaaa gtgaggagga agaggaacaa 960
gatacccttg aactggagct agttttggaa aggaaaaaag cagagttgcg agccttggag 1020
gaaggagatg gtagtgtgtc aggggtctagt ccacgttctg atatcagcca gccagcatct 1080
caagatggaa tgctgtaggt tatgtctaaa agaggaaaat ggaagatggt tgttcgagct 1140
accagtccag aatctaccag taggagttct agtaaaaact gacgagatac tccagaaaat 1200
ggagaaaact caattggtgc tgaaaattca gaaaaaatag atgagaattc agataaagag 1260
atggaagtag aagaatctcc agagaaaata aaagtacaga caacaccaa agtagaagaa 1320
gaacaggatt tgaaatttca gattggagaa ctggcaataa ccctgacaag taaattcgag 1380
tttctaggca ttaatagaca atccatctct aactttcatg tgctgctctt acagactgag 1440
actcgaattg cagactggcg ggaaggggct cttaatggaa actaccttaa acgaaaactt 1500
caggatgcag cagaacaact aaaacagtat gaaataaacg ccactcctaa aggctggtcc 1560
tgccactggg acaggtacgc actcttctcc ccttttcacc tttcaccttt gacatctcag 1620
acatgatttg tgatcaccac catctgacga catgacagcc tgtctggaga ctgagagcac 1680
ctgcagttag cgggtgctggg caggcaaaag accgcaagca caaagtttgg ccagccacac 1740
attggagaaa caaaagcaat gtttaaagtg ttccatgtaa cggatttttt cccaagatat 1800
ggacaaaagc gtgttttact ctccagagtg tt

```

<210> 71

WO 00/77040

PCT/US00/16636

<211> 1772
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 034159CB1

<400> 71
 acagtactga tattaagcag catccaacac aggcctactc ttacgacatg tgactttact 60
 gttttccggt tttgttgaaa gagtcattaa cagttaggag ttgatggcag tttcaataac 120
 aggtcattgc cgagaaaagg atagcactat aatatgcaga aatctacaaa ttctgatact 180
 tccgtggaaa cactgaattc taccgccaac ggcacaggag ctgtgcaaat gagaatcaaa 240
 aatgccaaca gccaccatga caggctcagc caaagtaa atcatgatcct caccgatgtc 300
 gggaagggtca ctgaacctat atccagacac agaaggaa atccacagca tatcttgaaa 360
 gatgtcattc ctccattgga acaactgatg gttgaaaaag aagggttatct gcaaaaagct 420
 aaaattgcag atggaggaaa gaaactaagg aaaaactggt ctacttcctg gattgttctt 480
 tctagtgcga gaattgaatt ttacaaagaa tccaagcaac aggctctgtc caatatgaaa 540
 actgggcaca aaccagaaag tgtggatttg tgtggagcac acattgaatg ggccaaggaa 600
 aaatcgagca gaaagaatgt ctttcagatc acaacagtat caggaaatga gttccttcta 660
 cagtcagata ttgacttcat catattggat tggttccacg ctatcaaaaa tgcaattgac 720
 agattgcgaa aggattcaag ttgtccatca agaaacctgg aattattcaa aatccaaaga 780
 tcctctagca ctgaattgct aagtcactat gacagtgata taaaagaaca gaaaccagag 840
 cacagaaaat ctttaattgt cagactgcat cacagtgtt ccgatacaag cgacaaaaat 900
 cgagttaaaa gcagattaaa gaagtttatt acccgaaagac cttccctgaa aactctgcaa 960
 gaaaaaggac ttattaaaga tcaaattttt ggctctcatc tgcacaaagt gtgtgaacgt 1020
 gaaaattcca cagttccgtg gtttgtaaa caatgcattg aagctgttga gaaaagaggt 1080
 ctagatgttg atggaatata tcgagttagt ggcaatctgg caacaatata gaagttaaga 1140
 tttattgtca accaagaaga gaagctgaat ttggacgaca gccagtggga ggacatccac 1200
 gttgtcaccg gagcactgaa gatgtttttc cgggagctgc ctgagcgcct cttcccttac 1260
 agtttctttg agcagtttgt ggaagcgatc aaaaagcaag acaacaacac aagaattgaa 1320
 gctgtaaaaat ctcttgtaca aaaactccct ccgccaaatc gtgacaccat gaaagtcctc 1380
 tttggacatc taactaagat agtggccaaa gcctccaaga acctcatgtc cagcgaagc 1440
 ttggggattg tatttggaac tacccttctg cgagctgaaa atgaaacagg aaacatggcg 1500
 atccacatgg tctaccagaa ccagatagct gagctcatgc tgagtgaagta cagtaagatc 1560
 ttgggtcag aggaagactg acagacaaga caagctactg aatacgttca gcttgtctt 1620
 gatgccta atttttacat ttctgtaaac atatttctga aatattttt gcctttcaag 1680
 cgacagatgc ctcattttgt gaaaacttaa tgatgatatt gtgtttaagt tccaaacatt 1740
 tgaataaaat aattgacaat aaaaaaaaaa aa 1772

<210> 72
 <211> 1488
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 129023CB1

<400> 72
 cgggacacaa gatggcgga gggcgctgg ggaggggcag gggaggcgg caaaacgggc 60
 ggtcgagcag aacgtgtagc cgcgtccct ccagtcgct ccgggcagct gctgatgcaa 120
 ggaatccctt gggctccgt ccaactccact gctgaccagc ccattcgct gtgctgagtc 180
 ttcttgacag cctttccttg cctctgtggg acctgtggg ggtccatccg gctggagaag 240
 aaaagcctct catgctaacg ttgcagacc cagaggggtc tgtgtgggtg tggagatggc 300
 caatgagaat cacggcagcc cccgggagga agcgctccctg ctgagtcact cccaggtac 360
 ctccaatcag agccagccct gttctccaaa gccaatccgc ctggttcagg acctccaga 420
 ggagctgggt catgcaggct gggagaagt ctggagccgg agggagaatc gtccctacta 480
 cttcaaccga ttcaccaacc agtcctgtg ggagatgcc gtgctggggc agcacgatgt 540
 gatttcggac cctttggggc tgaatgcgc cccactgcc caagactcaa gcttgggtga 600
 aactccccg gctgagaaca agcccagaaa gggcagctc tcggaagagc agccaagcgg 660
 caatgggtgt aagaagccca agattgaaat ccagtgaca cccacaggcc agtcggtgcc 720
 cagctcccc agtatcccag gaaccccaac gctgaagatg tggggtacgt cccctgaaga 780
 taaacagcag gcagctctcc tacgaccac tgaggtctac tgggacctg acatccagac 840
 caatgctgtc atcaagcacc gggggccttc agaggtgctg ccccgcatc ccgaagtga 900
 actgctccgc tctcagctca tctgaagct tcggcagcac tatcgggagc tgtgccagca 960
 gcgagagggc attgagcctc cacgggagtc tttcaaccgc tggatgctgg agcgcaaggt 1020

WO 00/77040

PCT/US00/16636

```

ggtagacaaa ggatctgacc cectgttgcc cagcaactgt gaaccagtgc tgtcaccttc 1080
catgtttcgt gaaatcatga acgacattcc tatcagggtta tcccgaatca agttccggga 1140
ggaagccaaag cgctgtctct ttaaataatgc ggaggccgcc aggcggctca tcgagtccag 1200
gagtgcatcc cctgacagta ggaaggtggt caaatggaaat gtggaagaca cccttagctg 1260
gcttcgcgaa ggaccactca gcctccaaag aggggcaaca tggatcgctt ggaacatctg 1320
cggaagcagt gctggcccca agtctcggcc gcaaccaaga ctccgtgcga acgcatctgc 1380
agtagatcta caaatctcct gaggtagtaa acgatccgga gaagacctgc atcctcagaa 1440
acactctcca gagtgagggc ctagtgagcc gctatgttgt accatcgc 1488

```

<210> 73
 <211> 2430
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1358940CB1

```

<400> 73
ggcccagcgg ctaggagagt cacgtgagat tgggcggagg ggggtggaggt ttgtctccgc 60
tgtttcatct ctatggctgt cagaggtggg cggctttgac cgagaggctg ctggagctcg 120
tgtttggacg cgatgtttcg tctgaactca cttctgtctt tggcagaact ggctgtgggt 180
tctcgatggt accatggagg atcacagccc atccagatcc ggcgaagact aatgatgggtg 240
gctttcctgg gagcatctgc agtaactgca agtactgggtc ttttgtggaa gaggggcccat 300
gcagaatctc caccatgtgt agacaaccta aaaagtgaca tcggtgataa agggaagaat 360
aaagatgaag gggatgtttg taaccatgag aaaaagactg cagatcttgc cctcaccaca 420
gaagagaaaa agaagaaaacg ttctggattc agagacagaa aagtgatgga atatgagaat 480
aggattcgag cctactccac gccagacaaa atcttccgat attttgccac cttgaaagtc 540
atcagtgagc ctggtgaagc agaagtgttt atgacaccag aagattttgt gcgatccata 600
acacccaatg aaaaacaacc agaacacttg ggtctggatc aatatataat aaaacgcttt 660
gatggaaaaga aaatttccca ggaacgagaa aaatttgcgt atgaaggcag tatattttat 720
acccttggag aatgtgggct catatccttt tcagactaca tttcctcac aactgttctt 780
tccactcctc agagaaattt tgaattgcc ttcaagatgt ttgattttaa tggagatgga 840
gaagtagata tggagaattt tgaacagggt cagagcatca ttcgctccca aaccagtatg 900
ggtatgcgcc acagagatcg tccaactact ggcaacaccc tcaagtctgg cttgtgttca 960
gccctcacaa cctacttttt tggagctgat ctgaagggaa agctgacaat caaaaacttc 1020
ctcgaatttc agcgtaaact gcagcatgat gttctgaagc ttgtgttga acgccatgac 1080
cctgtgggatg ggagaattac tgagaggcag tttggtggca tgctacttgc ctacagtggg 1140
gtgcagtcca agaagctgac cgccatgcag aggcagctca agaagcactt caaagaagga 1200
aagggtctga catttcagga ggtggagaac ttctttactt tcctaaagaa cattaatgat 1260
gtggacatcg cattgattt ttaccatag gctggagcat ctcttgataa agtgaccatg 1320
cagcaggtgg ccaggacagt ggctaaagtg gagctctcag accacgtgtg tgatgtgggtg 1380
tttgactctt ttgactgtga tggcaatggc gaactgagca ataaggaatt tgtttccatc 1440
atgaagcaac ggctgatgag aggcctggaa aagcccaaag acatgggttt cactcgctc 1500
atgcaggcca tgtggaaatg tgcacaggaa actgcctggg acttcgcttt acccaaacag 1560
taaccccaca ctgcaagagg ggacccctcc accccagta cctgggacc cctccgcaga 1620
gtctcggcag agccctttgt gctgctgctt ctggaagtag tctcccttc tccgggatg 1680
acctcaggac tctgtcgggt tccctcttt acccttccc gtcccctgt tctgtgggc 1740
tctgattctg cccaatgagt atccccatag gttctcaaaa acatgaacaa gtctgtaaag 1800
ctcagacatt tgtcagcctc aacagcacca cccattcaag catcctgtgg ataaagaatt 1860
cagggaacca tccacacacc tgccaacctt gggaagcacc cagtctcaca atcgttttg 1920
ctatggattt atactaacia gaacattcct tgacttccct cctgctgggtg ttttaaagcc 1980
acaagtaggg aagatatctg gcaggcagaa agaagtctgt gatgataaac aatgatgagg 2040
atgacctagg caccctacgc tagtgtgaga agcctgcgcc ccaggaagga tctgtgttag 2100
tccctgggat ggctccaagg cctgctctag gaaggcagca tgctcagtgg gaacacagca 2160
agattcagaa tttaaagtag ttgcttcatt gctctgtgca ctcccttttc ttctcgcag 2220
cctccctaag atgactccag tgtgacctg tgettagtga gcaatagtga ttgagctcat 2280
gttccctgca agtgccattt cctctccagg atgggcctct aaagctgagg cctggctcag 2340
agcctgtttg cctctgtct taaacaattg taaatatcac ttaaattata accatttgca 2400
ataaacatcc ccaaagttaa aaaaaaaaaa 2430

```

<210> 74
 <211> 1411
 <212> DNA
 <213> Homo sapiens

<220>

WO 00/77040

PCT/US00/16636

<221> misc_feature

<223> Incyte ID No: 1682320CB1

<400> 74

```

agcactagtc gcgcccactc ccttctactt ccaggtcggg ggggggaggg tccaatagaa 60
aggcggaagc cagtgtccca ggcgttctca cgcccgcaac aattcctgag tagggccttg 120
cttgagttct tcggaagtc tcatccaccc ccacatcgcc tctttaggaa gtcacttaat 180
gttgggcttc attattccca catccctttc cttactactt gcctgcaact cttgagaaaa 240
agactgcaga aaggagaggt ggggctttca gtgaaacaa gcaaaccgca ggtccctgtg 300
gggggactct ccaggaagaa gggtaatttc ctgctcctt aaattggctg ctactgtcag 360
ttattttgct cccaacccca gagcttcaact tgctccttca cttcccagtt ccgcaagaac 420
cgtgggagac agttatggag aagcgtctgc aggaggctca gctgtacaag gaggaaggga 480
accagcgcta ccgggaaggg aagtaccgag atgctgtgag taggtacat cgagctctgc 540
ttcagctgcg gggctctggat ccgagtctgc cctctccgtt acctaatctc ggacctcagg 600
gcccggccct cagcctgaa caagaaaaca tattgcatac caccagaca gactgctata 660
acaatctagc tgcttgtctc cttcagatgg agcccgtaa ctacgaacga gtgagagaat 720
atagtcagaa agtcctggaa cgacagcctg ataatgccaa ggccttgat cgggcccagg 780
tggccttttt ccatctgcag gactatgacc agggccgcca ctacctctg gctgccgtga 840
ataggcagcc taaagatgcc aacgtccggc ggtacctcca gctgacacag tcagaactca 900
gcagctacca tagaaaagag aagcagctct acctgggcat gtttggttaa caaagaagaa 960
agatgctcct ccagttgaac ttaggtggac cattaacat gcatgaagga gaaatctgag 1020
cctcagcaag agaaattaac cctatacctc tgaccaggt ggatttttgt ttctagtctt 1080
gcacaaactt cactacttag acagtctgag tcttttctg tctatccatc tgtttatctt 1140
tatacctttc aatacatgtt attgttgag atatttggt tgagaaatat aatcagaaaa 1200
catacatcag ttgtgggtgg aattaatcat atctctggt tagatttttc atgacagtgt 1260
tgtagatgt acttatatac agaggcgaca gcttgagag gacgacatag taaggatagg 1320
cagaaagaat tgtcttcctt tattttttca gaagccaaa ccaaagtggg aaatatggcc 1380
gggcgctcta gtcctgcct gtaatcccag c 1411

```

<210> 75

<211> 653

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1728263CB1

<400> 75

```

gcgggtggtag ctggttgggt tgctggggct cggttgttgt agtcgcgatg ttcttctccg 60
aggccagagc caggtcgagg acgtgggaag ccagtccttc ggaacacagg aagtgggtgg 120
aagtatttaa agcatgtgat gaagatcaca aaggatatct cagcagagag gactttaaaa 180
ctgctgttgt aatgctgttt ggggtacaag cctccaagat agaagtggat tctgtgatgt 240
cttcaataaa tccaaatact tctggtatat tactcgagg gtttttaaat attgtcagga 300
aaaagaagga agctcaacga tatcggaacg aagtaagaca catcttcaca gcctttgaca 360
cctactatcg tggattttta actttggaag atttcaaaaa agcatttagg caggtggctc 420
ccaaattacc ggaaaggact gttcttgagg tattcaggga agtagatcga gattcagatg 480
gtcacgtcag ctttagagac tttgaatatg ccctgaacta tggacagaag gaagcctaac 540
tattgtgaac tacttttggt aactctgggg agatcaatag attgtaatgt cagcagactc 600
tactctacta atgatgtcat gctacagact tgtgattaaa catttaaaaa ttt 653

```

<210> 76

<211> 1448

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1867626CB1

<400> 76

```

aaccgggatt ctgcatttcc cctaactctg agactcattt tgtggaatag agttgatcgc 60
tgtctctccc gcaaagcatt ttaactcgaa taagcaaat cgccctctgt ttgaacgttt 120
tggtatttac aagagagaaa tcattttacc taagagaact aattgaattg gcagcatcct 180
tgaaatacct ccggacaagg atctgggggt gggggtggaa aagcaactgc gaaatagcag 240
acggagaaat tcttttgaa gttattccgt agcataagag ctgaaacttc agagcaagtt 300
ttcattggggc aaaatggggg aacaacctat cttcagcact cgagctcatg tcttccaaat 360

```

WO 00/77040

PCT/US00/16636

```

tgacccaaac acaaagaaga actgggtacc caccagcaag catgcagtta ctgtgtctta 420
tttctatgac agcacaagaa atgtgtatag gataatcagt ttagatggct caaaggcaat 480
aataaatagt accatcacc ccaacatgac atttactaaa acatctcaga gggttggcca 540
gtgggctgat agccgggcaa acaccgttta tggattggga ttctctcttg agcatcatct 600
ttcgaaattt gcagaaaagt ttcaggaatt taaagaagct gctcgactag caaaggaaaa 660
atcacaagag aagatggaac ttaccagtac accttcacag gaatccgcag gcgggggatct 720
tcagtctcct ttaacaccgg aaagtatcaa cgggacagat gacgaaagaa cacctgatgt 780
gacacagaac tcagagccaa gggctgaacc aactcagaat gcattgccat ttccacatag 840
ttcagcaatc agcaaacatt gggaggctga actggctacc ctcaaaggaa ataatgccaa 900
actcactgca gccctgctgg agtccactgc caatgtgaaa caatggaaac agcaacttgc 960
tgcctatcaa gaggaagcag aacgtctgca caagcgggtg actgaacttg aatgtgttag 1020
tagccaagca aatgcagta atactcataa gacagaatta aatcagacaa tacaagaact 1080
ggaagagaca ctgaaactga aggaagagga aatagaaagg ttaaaacaag aaattgataa 1140
tgccagagaa ctacaagaac agagggtatc ttgactcag aaactacagg aagtagaaat 1200
tcggaacaaa gacctggagg gacaactgtc tgacttagag caacgtcttg agaaaagtca 1260
gaatgaacaa gaagcttttc gcaataacct gaagacactc ttagaaattc tggatggaaa 1320
gatatttgaa ctaacagaat tacgagataa ctgggccaa ctactagaat gcagctaagg 1380
aaagtgaat ttcagtgcc attaatataa agatacactg tctctctca taggaatgtt 1440
tagctctg 1448

```

<210> 77
 <211> 1538
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1990126CB1

```

<400> 77
gcgccccagc cgggccgagg cacctccgcc tcgcccgcgc taggtcggcc ggctccgccc 60
ggctgccgcc taggatgaat atcatggact tcaacgtgaa gaagctggcg gccgacgcag 120
gcaccttcct cagtccgccc gtgcagttca cagaagaaaa gcttggccag gctgagaaga 180
cagaattgga tgctcactta gagaacctcc ttagcaaagc tgaatgtacc aaaatatgga 240
cagaaaaaat aatgaaacaa actgaagtgt tattgcagcc aaatccaaat gccaggatag 300
aagaatttgt ttatgagaaa ctggatagaa agctccaag tcgtataaac aaccagaagc 360
ttttgggaca atatatgatt gatgcaggga ctgagtttgg cccaggaaca gcttatggta 420
atgcccttat taaatgtgga gaaacccaaa aaagaattgg aacagcagac agagaactga 480
ttcaaacgtc agccttaaat ttcttactc ctttaagaaa ctttatagaa ggagattaca 540
aaacaattgc taaagaaagg aaactattgc aaaataagag actggatttg gatgctgcaa 600
aaacgagact aaaaaaggca aaagctgcag aaactagaaa tcatctgaa caggaattaa 660
gaataactca aagtgaattt gatcgtaag cagagattac cagacttctg ctagagggaa 720
tcagcagta acatgcccac caccttcgct gtctgaatga cttttagtaa gccagatga 780
cttactatgc acagtgttac cagtatatgt tggacctcca gaaacaactg ggaagttttc 840
catccaatta tcttagtaac aacaatcaga cttctgtgac acctgtacca tcagttttac 900
caaatgcgat tggttcttct gccatggctt caacaagtgg cctagtaatc acctctcctt 960
ccaacctcag tgaccttaag gagtgtagtg gcagcagaaa ggccagggtt ctctatgatt 1020
atgatgcagc aaacagtact gaattatcac ttctggcaga tgaggtgatc actgtgttca 1080
gtgttgttgg aatggattca gactggctaa tgggggaaag gggaaaccag aagggcaagg 1140
tgccaattac ctacttagaa ctgctcaatt aagtaggtgg actatggaaa gggtgcccac 1200
catgactttg tatttatata caattaactc taaataaagc aggttaagta tcttccatgt 1260
taatgtgtta agagactgaa aataccagcc atcagaaact ggcttttctg ccaataaagt 1320
tgcatggtaa atatttcatt acagaattta tgtttagagc ttcatgccaa gaatgttttc 1380
ttacaaaatt ctctttttat tgaggtttca ctaataagca gcttctactt ttgagcctca 1440
acttaaagca gaactgtttt ctactggatt tttcattaac agcaagcttt ttcttttatg 1500
taaaataaat ctattgtgaa ttgaaaaaaa aaaaaaaa 1538

```

<210> 78
 <211> 998
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2104180CB1

<400> 78

WO 00/77040

PCT/US00/16636

```

ggggcggtgc cggggcggg ggcggcgggc tgtcagctga ctgtggcggc ggcggcctcg 60
aggtgacaac tgtctccgtc gcaggctccg gcggggggcg aggaggtcgc ccggcgcgtc 120
actgtcgggt cggcgagcca cggggggcgc cgcagcacca tggcgaccac cgtcagcact 180
cagcgcgggc cgggtgtacat cgggtgagtc ccgcaggact tcctccgcat cagcccaca 240
cagcagcagc ggcaggtcca gctggacgcc caggcgggcc agcagctgca gtacggaggc 300
gcagtgggca ccgtgggccc actgaacatc acggtggtac aggcaaagt ggccaagaat 360
tacggcatga cccgcatgga cccctactgc cgactgcgcc tgggctacgc ggtgtacgag 420
acgcccacgg cacacaatgg cgccaagaat ccccgctgga ataaggtcat ccactgcacg 480
gtgccccagc gcgtggactc tttctatctc gagatcttcg atgagagagc cttctccatg 540
gacgaccgca ttgcctggac ccacatcacc atcccgagat ccctgaggca gggcaagggtg 600
gaggacaagt ggtacagcct gagcgggagg cagggggacg acaaggaggg catgatcaac 660
ctcgtcatgt cctacgcgct gcttccagct gccatggtga tgccacccca gcccgtggtc 720
ctgatgcca cagtgtacca gcaggcggtt ggctatgtgc ccatcacagg gatgcccgct 780
gtctgtagcc ccgcatggt gcccgtggcc ctgccccggc cgcgctgaa cgcccagccc 840
cgctgtagcg aggaggacct gaaagccatc caggacatgt tccccaacat ggaccaggag 900
gtgatccgct ccgtgctgga agcccagcga gggaacaagg atgcgcgat caactccctg 960
ctgcagatgg gggaggagcc atagagcctc tgctcga 998

```

<210> 79

<211> 1086

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2122241CB1

<400> 79

```

gacttgctga ggaaaggcat acgttaatgt atgtgtgagg ttaaccagg aggttgaatt 60
ccaaaatttc cccttcccct ttcttccttt tactcagggt ctgtttcaag ctgattccag 120
ccatttgga ttgccgcca ctgacaactt agtagggctt tcattataag caggcttgag 180
atatctgacc tttctctcga cctaaacacc tggggctgga aacatggcgg gagagattta 240
cagattatac ctggggcaac gaaccagaac gacattagag gagaaaagag gcctgtcgtt 300
tttattggct tctgcacgtc ttctcccca gcttcggcca ctctcccctt cgcaccctct 360
cacctgacag aagggaactat tcctagttaa tgaggtggtt aaggatatcg gtggggtggg 420
ctggagcggg gtcgggttag gtctgagaga aggcctcgca caaaacactg taaaaacccg 480
aaaggaagtc tgagagacga accgccttc tcctgaagc ttctagaact ggagcagaaa 540
gaaggtgtgg ccaggggcca gcccgcctc ctccccgggc ggaagctgtg tcagttgccg 600
gaagtcggcg tgaggtgggg cttatgcggc ggctgtggtga aatagatatg ggcaccgagg 660
gggatgtgga gctggagttg gagactgaga ccagtggacc agagcggcct ccggagaagc 720
cacggaaca tgacagcggg gcggcggaat tggagcgggt caccgactat gcagaggaga 780
aggagatcca gagttccaat ctggagacgg ccattgtctgt gattggagac agaaggcccc 840
gggagcagaa agccaaacag gagcgggaga aagaactggc aaaagtcaat atcaagaagg 900
aagatctgga gctaataatg actgagatgg agatatctcg agcagcagca gaacgcagtt 960
tgcgggaaac catgggcaac gtggtagagg cgcttattgc cctaaccaac tgatgcgtgc 1020
tttctcaaat atacctactg gattaattta tggcaataaa attttttttt gtcttttaaa 1080
aaaaaa 1086

```

<210> 80

<211> 2323

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2580428CB1

<400> 80

```

tacgccaccg cgtccgagcc caaggcaaga ggcgtacgcy ccctgccga agtgcaactg 60
tcagttagcc tgcgcaggag gccaataggc tgccaatact ccttggaact cccgccagg 120
ccctgctgtc agtgccgctg cgcgcgggct cgcgcggcag gttcttgact gctgtgccgg 180
acgccagggt tagccatgca gcgagccgat tccgagcagc cctccaagcg tccccgttgc 240
gatgacagcc cgagaacccc ctcaaacacc ccttcgcgag aggcagactg gtccccgggc 300
ctggaactcc atcccgacta caagacatgg ggtccggagc aggtgtgctc cttcctcagg 360
cgcgggtggc ttgaagagcc ggtgctgctg aagaacatcc gagaaaatga aatcacaggc 420
gcattactgc cttgtcttga tgagtctcgt tttgaaaatc ttggagtaag ttccttgggg 480
gagaggaaga agctgcttag ttatatccag cgattgggtc aaatccacgt tgatacaatg 540

```

WO 00/77040

PCT/US00/16636

```

aaggtaatta atgatactat ccatggccac attgagctcc accctctcct cgtccgaatc 600
attgatacac ctcaatttca acgtcttcga tacatcaaac agctgggagg tggttactat 660
gtttttccag gagcttcaca caatcgattt gagcatagtc taggggtggg gtatctagca 720
ggatgtctag ttacgcact ggggtgaaaa caaccagagc tgcagataag tgaacgagat 780
gttctctgtg ttacagattgc tggactttgt catgatctcg gtcattggcc attttctcac 840
atgtttgatg gacgatttat tccacttgct cgcccggagg tgaaatggac gcatgaacaa 900
ggctcagtta tgatgtttga gcaccttatt aattctaata gaattaagcc tgtcatggaa 960
caatatggtc tcatccctga agaagatatt tgctttataa aggaacaaat ttagggacca 1020
cttgaatcac ctgtcgaaga ttcatgtgtg ccatataaag ggcgtcctga aaacaaaagc 1080
ttcttttatg agatagtatc taataaaaaga aatggcattg atgtggacaa atgggattat 1140
tttgccaggg actgccatca tcttggaaac caaaataatt ttgattacaa gcgctttatt 1200
aagtttgccc gtgtctgtga agtagacaat gagttgcgta tttgtgctag agataaggaa 1260
gttggaatc tgtatgacat gttccacact cgcaactctt tacaccgtag agcttatcaa 1320
cacaaggttg gcaacattat tgatacaatg attacagatg ctttctcaa agcagatgac 1380
tacatagaga ttacagggtg tggaggaaaa aagtatcgca tttctacagc aattgacgac 1440
atggaagcct atactaagct gacagataac attttcttgg agattttata ctctactgat 1500
cccaaattga aagacgcacg agagatttta aaacaaattg aataccgtaa tctattcaag 1560
tatgtgggtg agacgcagcc aacaggacaa ataaagatta aaaggaggga ctatgaatct 1620
cttccaaaag aggttgccag tgctaaaccc aaagtattgc tagacgtgaa actgaaggct 1680
gaagatttta tagtggatgt tatcaacatg gattatggaa tgcaagaaaa gaatccaatt 1740
gatcatgta gcttctattg taagactgcc cccaacagag caatcaggat tactaaaaac 1800
caggtttcac aacttctgcc agagaaattt gcagagcagc tgattcgagt atattgtaag 1860
aaggtggaca gaaagagttt gtatgccgca agacaatatt ttgttcagtg gtgtgcagac 1920
agaaatttca ccaagccgca ggatggcgat gttatagccc cactcataac acctcaaaaa 1980
aaggaatgga acgacagtac ttcagtccaa aatccaactc gcctccgaga agcatccaaa 2040
agcagagtc agctttttta agatgaccca atgtgaatgt ctgtagtcag ttgtttacaa 2100
actccctctc ctgcacaatt catttagagg cttcaatcat agaattctgc aaattaatga 2160
caactcatgc ttttaattttg tattttgaat gtacacgcac gctgaagcta agtaactttt 2220
aatcaaagaa ataagatggt attaggcaaa tcttactata ctatgaaaag cattaccttg 2280
cctattttta atattattaa agccttttct cttcaaaaaa aaa 2323

```

<210> 81
 <211> 669
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3397189CB1

```

<400> 81
cccacgcgtc cgaacgccat ggctcccaag aagctgtcct gccttcgttc cctgctgctg 60
ccgctcagcc tgacgctact gctgccccag gcagacactc ggtcgttcgt agtggatagg 120
ggctatgacc ggtttctcct agacggggcc ccgttcgct atgtgtctgg cagcctgcac 180
tacttttcggg taccgcggtt gctttggggc gaccggcttt tgaagatgcg atggagcggc 240
ctcaacgccca tacagtttta tgtgccctgg aactaccacg agccacagcc tggggtctat 300
aactttaatg gcagccggga cctcattgcc tttctgaatg aggcagctct agcgaacctg 360
ttggtcatatc tgagaccagg accttacatc tgtgcagagt gggagatggg gggctctcca 420
tcttggttgc ttcgaaaacc tgaaattcat ctaagaacct cagatccagg tgagttgaga 480
caaaggattt aacacagaag caagtaagta aaatgggcta ttgggtgcc aaaagcagaa 540
gagaccattc ccaaatgga ggcatcatt cattaccaa gtgtttcctt catgccagc 600
aggatgctag aaactggggg accagacaga ccccatcct tgtccagcag gcttatgata 660
tggtaaatc
669

```

<210> 82
 <211> 1606
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 4881249CB1

```

<400> 82
gcggcgagga cggccggcgc cggcgcgga gcctagggag gcagttcagc gcggcctcgg 60
gcctcgtcga gaaggatgct gtcccgaag aaaacaaaa acgaagtgtc caagccggcc 120
gaggtgcagg ggaagtacgt gaagaaggag acgtcgctc tgcttcggaa tcttatgcct 180

```

WO 00/77040

PCT/US00/16636

tcattcatcc	ggcatggtcc	aacaattcca	agacgaactg	atatctgtct	tcagattca	240
agccctaatt	ccttttcaac	ttctggagat	gtagtttcaa	gaaaccagag	tttccctaga	300
actccaattc	aaagaacacc	tcatagaata	atgagaagag	aaagcaacag	attatctgca	360
ccttcttate	ttgccagaag	tctagcagat	gtccctagag	agtatgggtc	ttctcagtca	420
tttgtaacgg	aagttagttt	tgctgttgaa	aatggagact	ctggttcccg	atattattat	480
tcagacaatt	tttttgatgg	tcagagaaag	cggccacttg	gagatcgtgc	acatgaagac	540
tacagatatt	atgaatacaa	ccatgatctc	ttccaaagaa	tgccacagaa	tcaggggagg	600
catgcttcag	gtattggggag	agttgctgct	acatcttttag	gaaatttgac	taaccatggt	660
tctgaagatt	tacccttcc	tcctggctgg	tctgtggact	ggacaatgag	agggagaaaa	720
tattatatag	atcataacac	aaatacaact	cactggagcc	atcctcttga	gcgagaagga	780
cttctctctg	gatgggaacg	agttgagtc	tccgaatttg	gaacctatta	tgtagatcac	840
acaaataaga	aggccaata	caggcatccc	tgtgctccta	gtgtacctcg	gtatgatcaa	900
ccacctcctg	tcacatacca	gccacagcaa	actgaaagaa	atcagtcctc	tctggtacct	960
gcaaattccat	atcatactgc	agaaattcct	gactggcttc	aggtttacgc	acgagccctc	1020
gtgaaatatg	accacattct	gaagtgggaa	ctcttccagc	tggtgacct	ggatacatac	1080
caggggaatgc	ttaaagtgtc	cttcatgaaa	gaattggagc	agattgttaa	aatgtatgaa	1140
gcatacagac	aagcccttct	tacagagttg	gaaaaccgaa	agcagagaca	gcagtggtat	1200
gcccacaaca	atggaaaaaa	tttttgagct	gatttttttaa	aaatttaagt	tttgtaagag	1260
ctttaaaaata	ttttcacaga	taaaaaattg	caaacaagta	ctctggttaa	taaatgctgc	1320
ttcctttgtg	gaaattataa	aatttctaact	ttacatgtat	tttgttatta	gaaattttct	1380
tttattgaat	gagaaaaaatt	agtctatcat	tttaagagcc	aatatggcaa	acactttcaa	1440
atactgtata	ttaggaaaact	gttttggtat	tcttgatgga	aaaaaatgca	gcgggaaatgt	1500
cattatgaac	agatgttaaa	taggaaatta	ttacttggtta	acttcttaca	gcagtagtac	1560
cttcttttaa	aaaaaaaaaga	atctgcggta	tttttttttaa	aaaaaa		1606

<210> 83

<211> 1980

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 431871CB1

<400> 83

ggctgagcgt	gtttacatcc	gccgggtgcg	cggtctcgcc	gcccagaggtc	gttcgggctcg	60
ggtaccatcc	tccgcgccat	ggacaccagc	gacctgttcg	ccagctgcag	gaaggggggat	120
gtgggcccag	tgcggtagct	gctggagcag	cgagacgtgg	agggtgaatgt	gcgggacaag	180
tgggacagca	cccccttgta	ctatgcctgc	ttgtgtgggc	acgaggagct	ggtactctac	240
cttctggcca	atggagcccg	ctgcgaggcc	aacaccttcg	atgggtgagcg	ctgcctctat	300
ggggcactga	gtgaccccat	ccgcggggct	ctacgcgatt	acaagcaggt	cacggcttcc	360
tgcaggaggc	gggattacta	tgacgacttc	ttgcagcggc	ttctagagca	gggcattccac	420
agtgcagtgg	tctttgtagt	acacgggaag	ccattccggg	tgcctcgtcg	cgctcgtggg	480
gcacgtagtg	cctactttgc	caacatgctg	gacaccaa	ggaagggcaa	gagtgctcgt	540
gttctcaggc	accactgat	caaccccg	gcctttgggg	ccctgctgca	gtacctgtac	600
acaggccgcc	tggacattgg	cgtagagcat	gtgagtga	gtgagcgcct	ggccaagcaa	660
tgcagctgtg	gggacctgct	cagcgacctg	gagggcaagt	gcgagaaggt	gtctgagttt	720
gtggcgctca	agccaggcac	gtgtgtgaag	gtgctgacca	tcgagccccc	acctgcagac	780
ccccgcctcc	gggaggacat	ggcgctgctg	gccgattgtg	ccctgcccc	cgagctccga	840
ggtgatcttt	gggagctgcc	cttcccttgt	cctgacggct	tcaacagctg	ccctgacatc	900
tgcttccgag	tggctggctg	cagcttctcc	tgccacaagg	cctttttctg	tggccgcagt	960
gactacttcc	gagccctgct	ggatgaccac	ttccgagaga	gcgaggagcc	agcgacctca	1020
ggggggcccc	cagccgtcac	cctgcatggc	atctcacccg	acgtcttcac	tcacgtgctc	1080
tactacatgt	acagcgacca	cactgagctg	tccccgagg	cagcctatga	tgtgctgagc	1140
gtcgccgaca	tgtacctgct	gccaggcctg	aagaggctgt	gcggccgcag	cctggctcag	1200
atgctagacg	aggacactgt	ggtgggtgtg	tggcgcgtgg	ccaagctctt	ccgcctggcg	1260
cggcttgagg	accagtgcac	tgagtacatg	gccaaaggtca	ttgagaagct	ggtggagcgg	1320
gaggacttcg	tggaggcggg	gaaggaggag	gcagcggctg	tggcagcccc	gcaggagacg	1380
gactctatcc	cgctggtgga	cgacatccgc	ttccacgtgg	ccagcacggg	gcagacctac	1440
agcgccatag	aggaggcgca	gcagcgtctg	cgggcactcg	aggacctgct	cgtgtccatc	1500
ggtctggact	gttgagcccc	tggctgggca	gccccagggg	ccaggagctc	tcttgagac	1560
aagcatgtgt	atgcgtttgt	gtgcagctct	tcttctgct	ccctgcacat	tgggggcttc	1620
atgggggggtg	cgaggggctc	agtggggctt	ctcttccctc	catgagcctg	gagacccag	1680
gggaggatcc	atttgggatg	agccccctcc	ccccaatgca	caagccagcc	cccaagacct	1740
tgggggtgga	caccactcag	ggaaacctgg	ggtgggggtg	ggctttgggtc	ttagcacttt	1800
ccttctccag	atcccccta	cccacccag	tcccaatcc	agtcctctgg	ccttgcccta	1860
gccctgaatt	gcttctctaa	gctgggtgtc	ccatgcacag	ggccattcag	gaaggggctg	1920

WO 00/77040

PCT/US00/16636

gggagtgtgt gtggcaataa agcttgaagg caccgtggga gcatgaaaaa aaaaaaaaaa 1980

<210> 84

<211> 1449

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 526155CB1

<400> 84

```

gccccccata gagtttagtg gccagagcga ctcttcaggg aggtggcagg aaaggcttgg 60
aacagctgcc ggaggtgacg gagcgccggc cccgcccggg gcgctggagg tcgaagcttc 120
caggtagcgg cccgcagagc ctgaccagg ctctggacat cctgagccca agtccccac 180
actcagtgcg gtgatgagtg cgggaagtga ggtgacaggg cagaaccagg agcaatttct 240
gctcctagcc aagtcggcca agggggcagc gctggccaca ctcattccatc aggtgctgga 300
ggccccctgg gtctacgtgt ttggagaact gctggacatg cccaatgtta gagagctggc 360
tgagagtgcg tttgectcta ccttcgggct gctcacagtg tttgcttatg ggacatacgc 420
tgactactta gctgaagccc ggaatcttcc tccactaaca gaggtcaga agaataagct 480
tcgacacctc tcagttgtca ccctggctgc taaagtaaag tgtatcccat atgcagtgtt 540
gctggagggt cttgccttgc gtaatgtgcg gcagctggaa gaccttgtga ttgaggctgt 600
gtatgctgac gtgcttcgtg gctccctgga ccagcgcaac cagcggtctg aggttgacta 660
cagcatcggg cgggacatcc agcgccagga cctcagtgcc attgccgaa ccctgcagga 720
atggtgtgtg ggctgtgagg tcgtgctgtc aggcattgag gagcaggtga gccgtgccaa 780
ccaacacaag gagcagcagc tgggcctgaa gcagcagatt gagagtgagg ttgccaacct 840
taaaaaaacc attaaagtta cgacggcagc agcagccgca gccacatctc aggaccctga 900
gcaacacctg actgagctga ggggaaccagc tcctggcacc aaccagcgcc agcccagcaa 960
gaaagcctca aagggcaagg ggctccgagg gagcgccaag atttggcca agtcgaattg 1020
aaagaactgt cgtttcctcc ctggggatgt ggggtcccag ctgcctgect gcctcttagg 1080
agtcctcaga gagccttctg tgccctggc cagctgataa tcttaggttc atgacccttc 1140
acctccccta accccaaaca tagatcacac ctctcttagg gaggagtcaa atgtaggtca 1200
tgttttttgt ggtactttct gtttttttgt acttcatgtg ttccattgct ccccgctgcc 1260
atgctctctc cctgttttcc ttaagagctc agcatctgtc cctgttcatt acatgtcatt 1320
gagtaggtgg gtagccttga tgggggtgcg tctgtctgga gcataacca caggcgtttt 1380
ttctgccacc ccattcctgc atgcctgac cccagttcct attaccctac ccctgaccta 1440
ttgaggagc                                     1449

```

<210> 85

<211> 1231

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 676234CB1

<400> 85

```

cctcctgctg gacacagaga caccacacca gcacaccaga cacaccctct gagtcaccta 60
ggccgcctgg ggctgagaag acctaaccga ggggccagat ggcttcgacc ggcttagaac 120
tgctgggcat gaccctggct gtgctgggct ggctggggac cctggtgtcc tgcgccctgc 180
ccctgtggaa ggtgaccgcc ttcacggca acagcatcgt ggtggcccag gtggtgtggg 240
agggcctgtg gatgtcctgc gtggtgcaga gcacgggcca gatgcagtgc aagggtgtacg 300
actcactgct ggctctgccg caggacctgc aggcgcgacg tgccctctgt gtcattgcc 360
tctgctggc cctgcttggc ctccctgggt ccattcacagg tgcccagtgt accacgtgtg 420
tgaggagcga aggtgccaa gcccgtatcg tgctcacgc gggggtcatc ctctcctcgc 480
ccggcatcct ggtgtcatc cctgtgtgct ggacggcgca cgccatcatc caggacttct 540
acaaccccc ggtggctgag gccctcaagc gggagctggg ggccctcctc tacctgggct 600
gggcggcgcc tgactgctt atgctgggcg gggggctcct ctgctgcacg tgccccccgc 660
cccaggctga gcggccccgc ggacctcggc tgggctactc catccctcc cgctcgggtg 720
catctggact ggacaagagg gactacgtgt gaggcggagg ttccccctgg gagcccactg 780
ctccccactg ccccgccct tgcaccttgc cctgatgacc agatgcctg ctccatcaca 840
acctccttcc ccaggaaaac ccactttcca aaagcccaag ctacacctgg ctgcagggtc 900
gggtcagctg gcctggctga gctcttctca gtgggggtccc ctttgatgtt ctcccccaag 960
ttgggcagcc tagaggtgtt ggggaacctg gcctgcccc acctccccag taattgtttc 1020
cttccgttgc ccaggacact ggctggcctt ccttctcttc tgagccctcc cctgccccag 1080
gaaccctggc ctcacaaaa cagcagcagc tcgttggctc caaaaccagg gagcagacca 1140

```


WO 00/77040

PCT/US00/16636

tgccctccca accctggagt tgtcagggag ggccctgccca tcacctccct ctcccccaaca 1200
 tccccaccct cgagttggaa ataaagagca t 1231

<210> 86
 <211> 858
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 720145CB1

<400> 86
 gggcgcggc gaccccgggg ggaggcgacg ttgggggtgt ttggggtcct atctttgcct 60
 ctggagctca cggtcggcgc ttgtcataac ccagcactag gactgagcgg gcggagcttc 120
 gtctttctag aaaggcctag gcgaggccta ggacgagggc ggcgagagac gcggggagaa 180
 gccacccgt gaggagccag ctgccgcgac gcaaatgcag ccctgaggat ttggctactg 240
 catataacaa cagggggcaa atcaagtact tcaggggtga tttttatgaa gccatggatg 300
 actacacatc tgccatagaa gtccaaccca attttgaagt tccatattac aacagagggg 360
 tgatactgta taggctggga tattttgatg atgctttgga agatttcaag aaggctcttag 420
 acttaaatcc tggatttcaa gatgctactt tgagcttaaa acagactatt ctagacaaag 480
 aagaaaaaca aagaagaaat gttgcaaaaa attattgata tttttaactt aatggaaagta 540
 ttgattcatg atccttacat ctgcatctag ttatcagtaa tttagatatt gagctatttt 600
 gatttatatt taagaaatta atacattagc actgaaagtt aaatagtgtg ttttaaggtag 660
 ttaatttcag gttgaatggg ttttttttaa tgaagtgtaa ataataccaa tgtataagtg 720
 tatattatta tattaaatat tatagtataa aggaatgtgt ggtattttct tcagcaaaac 780
 tatttttgtg atttttttat tctcaacttt ttatttataa aatgtttacat ctgcagaaaa 840
 gttgaaagta taataaac 858

<210> 87
 <211> 1748
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1001951CB1

<220>
 <221> unsure
 <222> 65
 <223> a, t, c, g, or other

<400> 87
 cgcatgcccc gtgcttcgat gtctaagcaa cctgctaact gaggcagcag tggagactgt 60
 gggngggggc aaatgcagct cagagatgag cgttggtgtg gcagccttat ttatccttct 120
 gcagttcttt ttccagaaac agcccagctct gctccctgag ggcccttggc tcccaacaa 180
 cctcactgca aacagtccta gtttctgtac ctccctgctc tccctggatc tgattgagcc 240
 tctcttacag ctggtgccag tatctaactg ggtgagcgta atggtgctca cagttctgtg 300
 caatgttgca gaaaagggtc ctgcttactg ccagcggctg tggccagggc ccctgcttcc 360
 cgccttgctg cacacactag ccttttctga cactgaagta gtaggccaga gtttggaact 420
 gctgcacat caagcatggt gcagcagttc ctgcggcaag ccagcgggg gacagaggaa 480
 aaggagagag agggggctct ggtcagcctt cgtcgaggct tgcagcacc tgaaacacag 540
 caaaccttca tccggagctg tgtctgtata cactgggtaa ccctgatcgt ggagagttag 600
 gctgtgagaa ggcagctcct gccacagggc attgttccag ccttggtctg ctgcatccag 660
 tcccccatg tggctgtgct ggaagctctc ggatatgcct tgtcccagct tctacaggct 720
 gaggaagctc cagagaagat cattccctcc atcttggcct ccactctccc tcagcacatg 780
 ctacaaatgt tgcaacctgg cccaaagctc aaccctgggg tcgctgtgga gtttgccctg 840
 tgccttcatt acatcatctg cagccaggct agcaatcctc tgctcattgg ccattggggt 900
 ctgtctactc tggggttgct gctgttggac ttggctgggg ctgtccagaa aaccgaggat 960
 gcaggactgg agctgctggc atgccccgtg ctctgatgtc taagcaacct gctaacttag 1020
 gcagcagtg agactgtggg agggcaaatg cagctcagag atgagcgtgt tgtggcagcc 1080
 ttatttatcc ttctgcagtt ctttttccag aaacagccca gtctgctccc tgagggcctt 1140
 tggtcctca acaacctcac tgcaaacagt cctagtctct gtacctcctt gctctccctg 1200
 gatctgattg agcctctctt acagctgttg ccagtatcta acgtggtgag cgtaatgggt 1260
 ctacagttc tctgcaatgt tgcagaaag gctcctgctt actgccagcg cgtgtggcca 1320
 gggccctgc ttcccgctt gctgcacaca ctagcctttt ctgacactga agtagtaggc 1380

WO 00/77040

PCT/US00/16636

cagagtttgg	agctgctgca	tctgctgttc	ctgtatcagc	cagaggctgt	tcagggtcttc	1440
ctgcagcagt	cagggctgca	agcctggaaa	aggcatcagg	aagaggccca	gtccaggat	1500
cgtgtgtatg	ctctccagca	gacagctctt	caagggtgat	cttgtttctc	aatgtcactc	1560
attccccctct	ctcttaacat	caagcttggt	ttgtccagta	gagcctttgg	agatttagga	1620
ccataatgag	gtctcatggt	ctctgctccc	acacctaagc	caagaccttt	gggtcccagc	1680
tcttccccct	tccactcagc	actatccagg	caaggaggac	caaaaaggga	ctcagtggtg	1740
tctactta						1748

<210> 88
 <211> 4240
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1243349CB1

<400> 88

agcttttgcca	cagaaagcag	tgagcaagaa	tgatagctgt	ctctttttaa	tgccgttgctc	60
aaattctgag	gcgacttact	aaagatgaga	gtccctacac	taaaccgcc	agccagacaa	120
agccgcctga	tgagcggttg	gctgtgagga	gacagagcat	cccagaggaa	ttcaagggct	180
ccacagtcgt	cgagctgatg	aagaaggaaag	gcactaccct	gggtctgacg	gtatcgggag	240
gaattgataa	ggatggcaag	ccaagagtat	ctaactctgcg	gcaaggagga	attgctgcta	300
gaagtgacca	gctggatgtg	ggtgactaca	tcaaagcagt	gaatggaatc	aacctggcca	360
aattccgcca	tgacgagatc	atcagcttgc	tgaagaatgt	gggagaaaga	gtggttcttg	420
aagtagagta	cgagcttcca	ccggtctctg	tgcaaggatc	aagtgttatt	ttccgaacag	480
tgagggtcac	attacataaa	gaaggcaata	cctttgggtt	tgtaattcga	gggggagcac	540
atgatgatag	aaataaatct	cgtccagttg	tgataacatg	tgttcgtcct	ggagggcctg	600
ctgacagaga	gggcacgatc	aaaccgggtg	acaggttgct	cagtgtggat	ggaattcggc	660
ttcttggaac	tacgcatgct	gaagccatga	gtattcttaa	acaatgtgga	caagaagcag	720
cactgctgat	agaatatgat	gtctcagtaa	tgactctgtg	ggcaacagca	tccgggccac	780
tactagtcca	agttgccaaa	actcctggtg	ccagccttgg	ggttgcccta	actacctcga	840
tgtgtgttaa	caaacaagtc	attgtcatag	acaaaatcaa	atctgcaagt	attgcagaca	900
gatgtggcgc	attgcatgtg	ggagatcaca	tctctcccat	cgatggaacc	agcatggagt	960
actgtacact	tgacagaagca	accagttcc	tgcccaacac	cactgaccag	gtcaagcttg	1020
agatccttcc	ccatcatcag	accgggtcgg	ccctaaaggg	gcccgaacct	gtgaaaattc	1080
agaggagcga	caggcaactt	acctgggatt	cctggggccag	caaccacagc	agccttcaca	1140
ccaaccatca	ctataaacag	taccacctcg	accattgcag	agtaccagcc	ctgacattcc	1200
cgaaaagcacc	tcttccaaac	agccctccag	ctttggtgtc	ttcctccttc	tctcctacct	1260
ccatgagtgc	atcacgctg	agtccctga	acatggggac	tctacctcga	agcctctact	1320
ccaccagccc	acgtggaacc	atgatgagga	ggagactgaa	aaagaaagac	ttcaaaagct	1380
cattgtcctt	agcctccagc	acagtaggat	tggttggttc	ggttggttcac	acagaaacca	1440
cagagggttg	tctgacggca	gatcctgtca	caggatttgg	gatccaactg	cagggcagtg	1500
tgtttgccac	agaaactctc	tcttctccac	ctctgatttc	ctatatcgaa	gctgacagcc	1560
cagcagagag	atgtgggttg	ctacagattg	gagacagagt	gatggccatc	aatggaattc	1620
caacagaaga	cagcaccttc	gaagaagcca	gtcagctcct	ccgagactct	tcaatcacga	1680
gcaaggtcac	actggaaatc	gagtttgatg	ttgcagagtc	tgatcatcca	agtagtgga	1740
catttcatgt	aaagctgcct	aagaagcaca	atgtggaact	tggaataaac	ataagttcac	1800
catccagtag	aaaaccagga	gacccctcgg	tcatttcaga	tatcaagaaa	gggagtgtgg	1860
cacacagaac	tgggaccctg	gaacttgggg	ataaattgct	cgcaatagat	aatatccggc	1920
tggaacaactg	ttccatggaa	gatgcagttc	agatcctcca	gcaatgtgaa	gacctggtga	1980
agctcaaaat	ccgcaaagat	gaagataatt	cagatgagca	agaaagttcc	ggagcaatta	2040
tttacaccgt	ggagcttaaa	cgctacgggg	ggcccttgg	catcacaatt	tcaggaactg	2100
aagagccgtt	tgatcctata	atcatttcaa	gcctcactaa	aggggggatta	gctgaaaagaa	2160
ctggcgcaat	ccacatagga	gaccgaatcc	tagccatcaa	tagcagcagc	ttgaaaggga	2220
agcctctgag	tgaagccatc	catttggttac	agatggcagg	agagactgtc	accttgaaaa	2280
ttaagaaaca	gacagatgcc	cagtcagcat	cgagccccaa	gaagttccct	atttctagcc	2340
atttgagtga	cctgggggat	gtggaggagg	actcctcacc	agcacagaag	ccaggcaagc	2400
ttccgacagc	gtaccctcc	acgggtgccc	gtgtggacag	tgctgtggat	tcatgggatg	2460
ggtctgcaat	agacaccagc	tatggaaactg	aaggcactag	ttttcaggcc	tcaggatata	2520
atttcaacac	ctatgactgg	aggagtccaa	aacagagagg	cagcttgctc	ccagtcacta	2580
agcctcgaag	ccagacttac	ccagatgtgg	ggctgagtta	tgaagactgg	gaccggtcca	2640
cagccagtgg	ttttgcaggg	gctgccgata	gtgcagagac	agaacaagag	gagaacttct	2700
ggctcgaagc	gctgtaggat	ttggaaacct	gctggacagtc	aggaattctg	agagaactgg	2760
ggcaacaat	catgtcgggg	agcacgatga	gtttgaatca	tgaggctcca	acacctcgca	2820
gtcagctggg	gcgacaggcc	agcttccagg	agcgcagcag	ctcgcgcccg	cactacagcc	2880
aaacaactcg	gagcaacacc	ctgccttcag	atgtgggtag	gaagtcagta	accctgagaa	2940

WO 00/77040

PCT/US00/16636

aatgaaaca	agaaataaag	gagatcatgt	ctccaactcc	tgtggagctg	cacaagggtga	3000
ccttgtacaa	ggactctgac	atggaggact	ttgggttcag	tgtagcagat	ggcttactgg	3060
agaaaaggagt	gtatgtcaaa	aatattcgcc	cagctggggcc	aggagatctt	ggtggcttaa	3120
agccctatga	caggctctta	caggtgaatc	atgtccgaac	cagagacttt	gactgctgcc	3180
ttgttgtgcc	cctcatagca	gaatccggga	ataagctgga	cctgggttatt	agtagaaacc	3240
cactggcttc	acagaagtct	atagaccaac	agagtctacc	aggagattgg	agtgaacaga	3300
acagtgcctt	tttccagcag	cctagccacg	gtggttaatt	ggagacacga	gaaccacta	3360
atacattata	gcaacgcttt	ttataaagca	ggacaaaaga	caatatctac	atgggtgctaa	3420
aaatccttta	agattttctgt	gacctttgaa	gcacagataa	tcaatcaacg	tggcattaac	3480
tgcaagcaca	ggggtccttt	aaatctctct	catgggtcat	gttcaacttcc	cttttcaagt	3540
tgaagagggt	tcttttttgg	tgaccactat	ggtatatgg	gggcaatgcc	ctgccagtcc	3600
caacggtaga	gaaaaatagg	cgtccccc	caactctaca	attaacatca	gaggaaattt	3660
tttacaagtt	catcttacta	tcacttttta	aaaagagaaa	catctgtttg	aaaatattct	3720
ctgtgatgat	ttccttaatt	cactttgaaa	tcagtttctt	actatgaagt	cattaatgta	3780
agaacttggc	caacaaagct	tttcttctca	taggctggct	ctactagggg	aactagtgtt	3840
tggtaaacctg	ctgggactac	cacaatggga	ggggtacagg	tataaaatta	agttatctta	3900
aaatgtttca	gcaatgatgc	acgtaggaga	ccataatagg	tgggtggtaaa	tggtttggcc	3960
acgtatagga	atgattttta	ctaagacgta	tgctattccc	tatgcaacaa	attatcaaac	4020
aggatatgtc	ttgtgacctg	tttttttttt	aaggacacat	ttttaatagc	tgaaaatctc	4080
tgataatgaa	ttagagtgtg	tagtaaacad	gagaattagt	tatattatct	tattttttaa	4140
attcaagact	aagaacttca	gagaatgaag	agtctattaa	aatgaggttc	atcttaatga	4200
taggcaaac	aaactcatac	tgcttgacat	gttttgaaaa			4240

<210> 89

<211> 2317

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1338201CB1

<400> 89

ataaccctca	ctaaagggaa	taagcttgcy	cgcagccat	gtccccgggg	cccgaggagg	60
tgaaccggct	cacggagagc	acctaccgga	atggttatgga	acagttcaat	cctgggctgc	120
gaaattttaat	aaacctgggg	aaaaattatg	agaaagctgt	aaacgctatg	atcctggcag	180
gaaaagccta	ctacgatgga	gtggccaaga	tcggtgagat	tgccactggg	tccccgtgt	240
caactgaact	gggacatgtc	ctcatagaga	tttcaagtac	ccacaagaaa	ctcaacgaga	300
gtcttgatga	aaatttttaa	aaattccaca	aagagattat	ccatgagctg	gagaagaaga	360
tagaacttga	cgtgaaatat	atgaacgcaa	ctctaaaaag	ataccaaaca	gaacacaaga	420
ataaattaga	gtctttggag	aaatcccaag	ctgagttgaa	gaagatcaga	aggaaaagcc	480
aagggaagccg	aaacgcactc	aaatatgaac	acaaagaaat	tgagtatgtg	gagaccgtta	540
cttctcgtca	gagtgaatc	cagaaattca	ttgcagatgg	ttgcaaagag	gctctgcttg	600
aagagaagag	gcgcttctgc	tttctgggtg	ataagcactg	tggttttgca	aaccacatac	660
attattatca	cttacagtct	gcagaactac	tgaattccaa	gctgcctcgg	tggcaggaga	720
cctgtgttga	tgccatcaaa	gtgccagaga	aaatcatgaa	tatgatcgaa	gaaataaaga	780
ccccagcctc	tacccccgtg	tctggaactc	ctcaggcttc	acccatgatc	gagagaagca	840
atgtgggttag	gaaagattac	gacacccttt	ctaaatgctc	accaaagatg	ccccccgctc	900
cttcaggcag	agcatatacc	agtccttga	tcgatatgtt	taataaccca	gccacggctg	960
ccccgaattc	acaaaagggt	aataattcaa	caggtaacttc	cgaagatccc	agttttacagc	1020
gatcagtttc	ggttgcaacg	ggactgaaca	tgatgaagaa	gcagaaagtg	aagaccatct	1080
tcccgcacac	tgcggtctcc	aacaagacct	tactcagctt	tgacaggga	gatgtcatca	1140
cgctgctcat	ccccgaggag	aaggatggct	ggctctatgg	agaacacgac	gtgtccaagg	1200
cgaggggttg	gttcccgtcg	tcgtacacga	agttgtctgga	agaaaatgag	acagaagcag	1260
tgaccgtgcc	cacgccaagc	cccacaccag	tgagaagcat	cagcacctg	aacttgctctg	1320
agaatagcag	tggtgtcatc	ccccaccctg	actacttgga	atgcttatcc	atggggggcag	1380
ctgccgacag	gagagcagat	tcggccagga	cgacatccac	ctttaaggcc	ccagcgtcca	1440
agccccagag	cgcggtctct	aacgatgcca	acgggactgc	aaagccgcct	tttctcagcg	1500
gagaaaaacc	ctttgccact	gtgaaaactc	gcccagctgc	gacgaatgat	cgctcggcac	1560
ccatcattcg	atgagaggac	agccaaggac	tctcccgggt	ctctccggtt	ctcccttgcg	1620
gaatgatggg	cgcacctgt	ctgccacgtg	ctgacggctg	ggaagcttca	gtggagaggc	1680
ctaactctaa	tgtcgctctg	tttaagcaaat	catgcttctc	tgtttcacgt	agttgggttg	1740
acaagtttct	gcctttaaga	taaagtagta	atagtctaat	gaccagctca	tacttttaa	1800
atatgttctt	cctattctgt	tcaagaaaca	gtaaaactgg	tttcaatctt	gactgtatgt	1860
tttaaatgaa	ttttttctct	aataacagcc	agaataaggg	atagtctatg	ctttcaggac	1920
tggctttctg	cacctgat	gaatgagacc	agttttatct	tataaagcat	gtgctcttaa	1980
tagcattatg	tctaaagaag	atatcacgta	agtttgcac	ttagcatgca	aatcataatt	2040

WO 00/77040

PCT/US00/16636

ttaagcaata	taaattatga	aaatactata	taaatgtaat	ttaacttaaa	atgttttaagt	2100
gtagagcttc	cagagatggg	ggaaaccccc	accctccctc	caaccacgcc	agagctgtag	2160
gagtgtctaa	acgctttggc	tgcccttata	acagcccacg	tagcatcgga	ggaacctctc	2220
cgggagctcc	tttctctggg	gtttggagtt	gccacggggt	cggttgaaag	ggcatcccg	2280
gaccagcctg	ggggtggagt	tcagggcctt	ggtttct			2317

<210> 90

<211> 3899

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1405141CB1

<400> 90

cggcacgagc	tcgtgccgaa	ttcggcacga	gaaaccagct	gttccgagtc	ctcaccagag	60
ccacacagga	agaagtcgcg	gttaacgtga	ctcgggtcat	tattcatgtg	gttgcccagt	120
gccatgagga	aggattggag	agccacttga	ggcatatgt	taagtacgcg	tataaggctg	180
agccatatgt	tgccctctgaa	tacaagacag	tgcatgaaga	actgaccaa	tccatgacca	240
cgattctcaa	gccttctgcc	gatttctctc	ccagcaacaa	actactgaag	tactcatggt	300
ttttctttga	tgactgatc	aaatctatgg	ctcagcattt	gatagagaac	tccaaagtta	360
agttgtctcg	aaaccagaga	tttctctgat	cctatcatca	tgcatggaa	accgttgtaa	420
atatgctgat	gccacacatc	actcagaagt	ttcgagataa	tccagaggca	tctaagaacg	480
cgaatcatag	ccttgctgtc	ttcatcaaga	gatgtttcac	cttcatggac	aggggctttg	540
tcttcaagca	gatcaacaac	tacattagct	gttttgctcc	tggagaccca	aagaccctct	600
ttgaatacaa	gtttgaattt	ctcgtgtag	tgtgcaacca	tgaacattat	attccgttga	660
acttaccat	gccatttggg	aaaggcagga	ttcaaagata	ccaagacctc	cagcttgact	720
actcattaac	agatgagttc	tgcaaaaacc	acttcttggt	gggactgtta	ctgaggggagg	780
tggggacagc	cctccaggag	ttccggggagg	tccgtctgat	cgccatcagt	gtgctcaaga	840
acctgctgat	aaagcattct	tttgatgaca	gatatgcttc	aaggagccat	caggcaagga	900
tagecacccct	ctacctgcct	ctgtttgggt	tgctgattga	aaacgtccag	cggatcaatg	960
tgagggatgt	gtcacccttc	cctgtgaacg	cgggcatgac	tgtgaaggat	gaatccctgg	1020
ctctaccagc	tgtgaatccg	ctggtgacgc	cgcagaaggg	aagcacccctg	gacaacagcc	1080
tgcaacaagga	cctgctgggc	gccatctccg	gcattgcttc	tccatataca	acctcaactc	1140
caaacatcaa	cagtgtgaga	aatgctgatt	cgagaggatc	tctcataagc	acagatctcg	1200
tcaacagcct	tccagaaagg	aatagtgaag	agagcaattc	cctggataag	ccccaaacaa	1260
gtagcacatt	gggaaattcc	gtggttcgtc	gtgataaact	tgaccagtct	gagattaaga	1320
gcctactgat	gtgtttcctc	tacatcttaa	agagcatgtc	tgatgatgct	ttgtttacat	1380
attggaacaa	ggcttcaaca	tctgaactta	tggatttttt	tacaatatct	gaagtctgcc	1440
tgcaaccagtt	ccagtatcatg	gggaagcgat	acatagccag	tgtgagaaag	atatcaagtg	1500
tgcttgggaat	ttctgtagac	aatggctatg	gccactcggg	cgcagatgtt	ctgcaccagt	1560
cattacttga	agccaacatt	gctactgagg	tttgcttgac	agctctggac	acgttttctc	1620
tattttacatt	ggcgtttaag	aaccagctcc	tggccgacca	tggacataat	cctctcatga	1680
aaaaagtttt	tgatgtctac	ctgtgttttc	ttcaaaaaca	tcagtctgaa	acggctttaa	1740
aaaatgtctt	cactgcctta	aggtccttaa	tttataagtt	tccctcaaca	ttctatgaag	1800
ggagagcgga	catgtgtgcg	gctctgtgtt	acgagattct	caagtgtgtg	aactccaagc	1860
tgagctccat	caggacggag	gcctcccagc	tgctctactt	cctgatgagg	aacaactttg	1920
attacactgg	aaagaagtcc	tttgtccgga	cacatttgca	agtcataata	tctgtcagcc	1980
agctgatagc	agacgttgtt	ggcattgggg	gaaccagatt	ccagcagtc	ctgtccatca	2040
tcaacaactg	tgccaacagt	gaccggctta	ttaagcacac	cagcttctcc	tctgatgtga	2100
aggacttaac	caaaaggata	cgcacgggtg	taatggccac	cgcccagatg	aaggagcatg	2160
agaacgaccc	agagatgctg	gtggacctcc	agtacagcct	ggccaaatcc	tatgccagca	2220
cgcccagagc	caggaagacg	tggctcgaca	gcattggccg	gatccatgtc	aaaaatggcg	2280
atctctcaga	ggcagcaatg	tgctatgtcc	acgtaacagc	cctagtggca	gaatatctca	2340
cacggaaagg	cggtgtttaga	caaggatgca	ccgccttcag	ggtcattacc	ccaaacatcg	2400
acgaggaggc	ctccatgatg	gaagacgtgg	ggatgcagga	tgtccatttc	aacgaggatg	2460
tgctgatgga	gctccttgag	cagtgcgcag	atggactctg	gaaagccgag	cgctacgagc	2520
tcatcgccga	cacttacaac	cttatcatcc	ccatttatga	gaagcggagg	gattttttaga	2580
ggctggccca	tctgtatgac	acgtgcaccc	gggcctacag	caaagtgaac	gaggtcatgc	2640
actcggggccg	cagcgttctg	gggacctact	tccgggtagc	cttcttcggg	cagggattct	2700
ttgaagatga	agatggaaag	gagtatat	acaagggaac	caaactcaca	ccgtgtcggg	2760
aaattttctca	gagactcctt	aaactgtact	cggataaatt	tggttctgaa	aatgtcaaaa	2820
tgatacagga	ttctggcaag	gtcaacccta	aggatctgga	ttctaagtat	gcatacatcc	2880
aggtgactca	cctcatcccc	ttctttgacg	aaaaagagtt	gcaagaaagg	aaaacagatt	2940
ttgagagatc	ccacaacatc	cgcgcgttca	tgtttgagat	gccatttacg	cagaccggga	3000
agaggcaggg	cggggtggaa	gagcagtgca	aacggcgcac	catcctgaca	gccatacact	3060

WO 00/77040

PCT/US00/16636

```

gcttccctta tgtgaagaag cgcattccctg tcatgtacca gcaccacact gacctgaacc 3120
ccatcgagggt ggccattgac gagatgagta agaaggtggc ggagctccgg cagctgtgct 3180
cctcgggccga ggtggacatg atcaaactgc agctcaaact ccagggcagc gtgagtgttc 3240
aggtcaatgc tggcccacta gcatatgcgc gagctttctt agatgatata aacacaaagc 3300
gatatacctga caataaagtg aagctgctta aggaagtttt caggcaattt gtggaagctt 3360
gcggtcaagc cttagcggta aacgaacgtc tgattaaaga agaccagctc gagtatcagg 3420
aagaaatgaa agccaactac agggaaatgg cgaaggagct ttctgaaatc atgcatgagc 3480
agatctgccc cctggaggac gaagacgagc gtcttaccga attcccttca catcttcaac 3540
gccatcagtg ggactccaac aagcacagtg gttcacggga tgaccagctc gtcttcggtc 3600
gtgtgattac atctcatggc ccgtgtgtgg ggacttgctt tgtcatttgc aaactcagga 3660
tgctttccaa agccaatcac tggggagacc gagcacaggg aggaccaagg ggaaggggag 3720
agaaaggaaa taaagaacaa cgttatttct taacagactt tctataggag ttgtaagaag 3780
gtgcacatat ttttttaaata ctcactggca atattcaaag ttttcattgt gtcttaacaa 3840
aggtgtggta gacactcttg agctggactt agattttatt cttccttgca gagttagtg 3899

```

<210> 91
 <211> 2301
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1686305CB1

```

<400> 91
accgggctcg gcgtagtgc ctgcggggct gacgggggtg cagtgcggcg gggtacggcc 60
tggtcagacc ataatgactt cagcaaatata agcaatcgaa ttacaactac aagtgaacaa 120
aaatgcagaa gaattacaag actttatgcg ggatttagaa aactgggaaa aagacattaa 180
acaaaaggat atggaaactaa gaagacagaa tgggtgttct gaagagaatt tacctcctat 240
tcgaaatggg aatttttagga aaaagaagaa aggcaaagct aaagagtctt ccaaaaaaac 300
cagagaggaa aacacaaaaa acaggataaa atcttatgat tatgaggcat gggcaaaact 360
tgatgtggac cgtatccttg atgagcttga caaagacgat agtaccatg agtctctgtc 420
tcaagaatca cgtcggaag aagatgggat tcatgtagat tcacaaaagg ctcttggttt 480
aaaagaaaag ggcaataaat acttcaaaac aggaaaatat gatgaagcaa ttgactgcta 540
cacaaaaggc atggatgccg atccatataa tccgtgttg ccaacgaaca gagcgtcagc 600
atattttaga ctgaaaaaat ttgctgttgc tgagtctgat tgtaatttag cagttgcctt 660
gaatagaagt tacaacaaag cttattccag acgaggtgct gctcgatttg ctttgcaaaa 720
attagaagag gccaaaaaag attatgaaag agtattagaa ctagaaccaa ataactttga 780
agcaacaaat gaactcagga aaatcagtca ggcttttagc tccaaagaaa actcatatcc 840
aaaggaagct gacatagtga ttaagtcaac agaaggagag cgaaagcaaa ttgaagcaca 900
acagaataag cagcaggcca tttcagagaa agatcggggg aatggatttt tcaaagaggg 960
gaaatatgaa agagcaattg aatgctatac tcgagggata gcagcagatg gtgctaatgc 1020
ccttcttcca gctaacagag ctatggccta tctgaagatt cagaaaatag aagaagctga 1080
aaaagactgc acacaagcca ttttattaga tggctcatat tctaaagctt ttgccagaag 1140
aggaactgca agaacatttt tgggaaagct aaatgaggca aaacaagatt ttgaaaactgt 1200
tttactttct gaacctggaa ataagcaagc agtaactgaa ctctccaaaa ttaaaaagga 1260
attaattgag aaaggacact gggatgatgt ctttcttgat tccacacaaa gacaaaatgt 1320
ggtaaaaccc attgataatc caccgcatcc tggatcaact aaaccactca agaaggttat 1380
tattgaagaa actggtaatt tgatacagac tattgatgtg ccagatagca ctactgctgc 1440
tgctccagag aataatccta ttaatctagc aaatgtataa gcagccacag gcaccacaag 1500
taagaagaat tcaagccaag atgacctttt tcccacaagt gatactccaa gagcaaaaagt 1560
attgaaaata gaagaagtca gtgatacttc atcccgtcaa cctcaagcca gtttgaagca 1620
ggatgtatgt cagtcttaca gcgagaaaat gcccatagag atagaacaaa aacctgctca 1680
gtttgccaca actgttcttc ctccaattcc tgcaaaactcg ttccagctcg aatctgattt 1740
cagacaattg aaaagttctc cagatatgtt gtatcagtat ttaaagcaaa ttgaaccatc 1800
tttgtatcct aagttgtttc agaaaaatct ggatccagat gtattcaacc agatcgtaa 1860
aattctgcat gacttttaca ttgagaaaaga aaagccatta ctcacttttg aaactctaca 1920
aagactttct gaactaaaaa ggtttgatat ggcagtgatg tttatgtcag aacagagaa 1980
aaagattgca cgtgcattat ttaatcacat agacaagtca ggattgaagg atagttctgt 2040
cgaagaactc aagaaaagat acggtggttg atttccattt ttgctgaaat aattgttttt 2100
gactttcata tgtaaatttt ttctactgaa agtgttttgc tttttaagaa aatgaaatta 2160
tatagcagga aaggactatc tttgaacata agttaattaa ctataaggtg aattgtgatt 2220
taactagtga gaattgtatt caagtgaact ctgtttttct gaaaataaaa atataaacaa 2280
tgagatacaa aaaaaaaaaa a
2301

```

<210> 92
 <211> 2314

WO 00/77040

PCT/US00/16636

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1688972CB1

<400> 92
ggccctgggg aggccttgag gatagaggag gaggcctggc cgtgcctttc tggagttcac 60
agacccctaa agacaggagg cagggatggc gtcgtaggcc tggagagcgc ctggggggcg 120
ggagggcctg aggcctgtgt taaggcccag aggtccttga gcagggcagc tctgttctctg 180
aggcttaggc agggcccccga ggggagttgg ggcaggaggt ggggaggaca ggatcgtgga 240
ggcttcgcat gtcattggtgt ctgttggttt ttaggctttc ttgggaagtc tgggtgtttcc 300
tatgtagttt ggggactagg ccacacctct cctcatgct tgtcaccact gctacacctt 360
gtctgcccac tttctctctt tcccgcctct ggaggtgaga cctcacctc tctcgtgagc 420
atgctgcctc atgtcttccg tgccgtcgtt ctgtggctgg gtgactgtcc ctcaggccgc 480
caaccctagt tggctctcac agcaacttcc agtgtcctcg gacggggact tcctaagcag 540
catggggggc acacgggcgc gccacgcaca ctggcctggg tccgcattcc ctatttcagg 600
ctgttgtctc gggtcagatc tccggaagcg gcaggagcgc tgggtctcct ggtcgtggcc 660
gggcagcgtc tttcttcttc agggcttggg tgcacttcc cgcctcctcc ctgtgcccag 720
tggaaggaga aacatcctag aggggtggga ctgccctgtt tttcttttgc cattgagtc 780
cagtgtgact caagcacgag gccacctttc tctgccagag gacagaaagc ttcagtgcact 840
ggcccagggt cacacagttc tgccgcccag ccagcagcc tgagccagca gtcaggatgg 900
ggtgggggaca ctccgtctct cttagacccc cactcagaga atgggggctga cactgtagga 960
gaaatataag caggactcct gctggctgct cccctcctgc atgaggcatg ttagagggac 1020
tgggaccgcc agccccagc tcccatgccg ggccctggcc cagtctcagc tccgttttgg 1080
gagggggggc agaggggcag gggggcagaa gttgagttct ggagctgggg cagggcacag 1140
gctctagggc ccagctgtcc tccctctccc tccctgctg gccactcctg ctgccgtctc 1200
cacagctctg gaatgatgaa gtggacaagg ccgagcagga gctccgcgtg gccagacag 1260
agtttgaccg gcaagcagaa gtgaccgtc tcttgtctga gggaatcagt agcactcacg 1320
tgaaccacct gcgtgcctc cacgagttcg tcaagtctca gacaacctac tacgcacagt 1380
gctaccgcca catgtggac ttgcagaagc agctgggcag atttcccggc accttcgtgg 1440
gcacaacaga ccccgcctcc ccacctctga gcagcacctc acccaccact gctgcggcca 1500
ctatgcctgt ggtgccctct gtggccagcc tggccctcc gggggaggcc tcgctctgcc 1560
tggaagaggt ggccccccct gccagtggga cccgcaaagc tcgggtgctc tatgactacg 1620
aggcagccga cagcagttag ctggccctgc tggctgatga gctcatcact gtctacagcc 1680
tgccctggcat ggacctgac tggctcatgt gcgagagagg caacaagaag ggcaaggtcc 1740
ctgtcaccta cttggaactg ctcagctagg caggtgcccc catccccccc gcattctggc 1800
ctaggcagga gaggatgggc gcagcctgcc acttaacttg ttgtttgggt acacagttgt 1860
tcagagtggg gagaattcac cccattctgt cctgccccct agtcacctag ctgtgagggt 1920
gctgagggt gaattggctc acccctcccc cagccctgct tctgacctgt ggctctggag 1980
ccccctggcc tgctgcate cccgagcaca ccacctcca ggctccacta aggagggagg 2040
ggctgtctgc agcagctgca ctcagcacct agggcagggt gggggccgcc cagatgggct 2100
caggaagccc caggtgcact cagcgagagc cctgcctttc agttgccaaa agctgcacat 2160
ggggaatgca gcaaggcaca cagggctctg gcagccctg gggactgggc gctgcccctg 2220
ggagggggag gcctggccag ggctgggtgt gggcccgag cagcatcttc cgggtgctatc 2280
ctccccccc accctcaca gctcaagcca agtc 2314

<210> 93
<211> 1880
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1812494CB1

<400> 93
gaagaccctc ggggaagcagt cagactgcac tcacctcaga cacactggaa aacagtaaga 60
gaggagagaa agaagcctac tgaggaagaa ataagaaaga tctgcaggga tgaaggaa 120
gcgctggggc agaattgagga atctccaaa cagggtttga ttactatctg gcaactgtca 180
gatctgagtt tctgtcctaa aaatgcactg gcaaattccc tactctcata actgacctat 240
ttccttattt aaacacacac ccacagtgtc tatcttagca attactgaga catgtttagt 300
gacctttcca aatctattat ctcttttgtt atggatgttt cccagagct aagaaaatct 360
ttgtgtggag catagtgcgt gatgtgttgc atggatctca catagtttat ctttgattgg 420
atgctgtggg ttgaggctga gggctgttcc catgctttcc tctattgtgc ggcacctaa 480
ggctactcat acggagagtc cagggacttg ttcttgtctg ggctgagagc ctcatttctg 540

WO 00/77040

PCT/US00/16636

```

catgtgatataatggactcagctcttgatgtgctacttttatctgggtga caaaataaaa 600
acaatttcat ttcaggcttt cattcttatg catctgcttc taccctctga gtactcccta 660
gatggatttc acatgtcagg tttttcccta gggttcagggt cggaggaggaga agatggcttt 720
caggtagagt tggagctagt ggagttgact gtgggggactc tggatctttg tgagtctgaa 780
gtattgcccc agcggaggag gagaaaaagg aataagaagg agaaaagccg agaccaggag 840
gctggggcac atcggactct tctccagcaa actcaagaag aggagccttc cacacagtca 900
tcccaggcag ttgctgcccc ctgggcccct ttgctggatg aggccaaagc ccttggtcag 960
ccagagctct ggaatgcact gcttgctgct tgccgagctg gagatggttg agtgctaaag 1020
ctgcagctag ctcccagccc tgcagaccct agagtctctgt ctctgctcag tgcccccttg 1080
ggctccggtg gctttactct cctgcatgca gcagctgcag ctggaagagg ctcagtgggt 1140
cgtctgctgc tggaagcagg tgctgacccc actgtgcagg actctcgggc ccggccacct 1200
tatactgttg cggctgacaa atcaacacgt aatgagttcc gaaggttcat ggagaagaat 1260
ccagatgcct acgattacaa caaggctcag gtgccaggac cattgacacc agaaatggag 1320
gcacggcagg ctacacggaa aaggggagcag aaggcagccc ggcggcaacg ggaggaacag 1380
cagcagaggc agcaggagca ggaggagcgt gaaagagaag agcagcggcg atttgccgcc 1440
ctcagtgacc gagagaagag agctctggct gcagagcgcc gactcgctgc ccagttggga 1500
ccccctaccc ctccaatccc tgactctgca atcgtcaata ctcgacgctg ctggagtgtg 1560
ggggcatccc tccaaggcct gactcccttt cactacctcg acttctcttt ctgctccaca 1620
cgttgcctcc aggatcatcg ccgtcaggca gggaggccct ctctctgatc tcttacagct 1680
ctacctgggg ccaactcagg gacctgagag ggcacattca cagcagccct aggttttttc 1740
ttccccgtga aaccagagat gatttggaag atgggggtga aggacactcg ggaactaggg 1800
caaagacagg gctagaggtg tgtggagctg gtactgtctc tggaatttta atcacataa 1860
agtttggtgcaa ggaaaaaaaaa 1880

```

<210> 94

<211> 879

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2013853CB1

<400> 94

```

ccctctccga ccctttgagc cgtggccggt gccagatgtc cacaatggga aacgaggcca 60
gttaccgggc ggagatgtgc tcccactttg acaatgatga aattaaaagg ctgggcagga 120
ggtttaagaa gttggacttg gacaaatcag ggtctctgag cgtggaggag ttcagtctcc 180
tgccggagct gcgccacaac ccgttggtgc ggcgagtgat cgactcttc gacaccgacg 240
gtgatggaga agtggacttc aaggaattca tcttggggac ctcccagttc agcgtcaagg 300
gcgacgagga gcagaagttg aggtttgctg tcagcattta cgacatggat aaagatggct 360
acatttccaa cggggagctc ttccaggtgc tgaagatgat ggtgggcaac aacctgacgg 420
actggcagct ccagcagctg gtcgacaaaa ccatcatcat cctggacaag gatggcgatg 480
ggaagatatc ctttgaggaa ttcatgtctg tggtcagaga cctggagatc cacaagaagc 540
tggtcctcat cgtatgagcc tttttcttac aagcaccacc caacaacttc tgctttcttc 600
cctatctctt tcaagatttg ctcaagacgt ccaactgtct ctctgactta tctggaagta 660
tttctttttg tgaagccata tgtcctaaca ggagcttcat caccaactca gtgctattaa 720
ttctccttct ctgaatgact cagggtaccc tataggggga agagcaagtc aaatgagcat 780
agtggggaaa gaaaaggaaa tggcttttat aaacatcttt tactttgttt tgattcaaa 840
accaaactag aactttaaaa gttcaaaaaa aagaaagta 879

```

<210> 95

<211> 3162

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2284925CB1

<400> 95

```

tgcgcatcgg gcccatgaga ctgacgcagg accctattca gggtttgctg atctttgcaa 60
aggaagatag tcagagcgat ggcttctggt gggcctgcga cagagctggt tatagatgca 120
atattgctcg gactccagag tcagcccttg aatgctttct tgataagcat catgaaatta 180
ttgtaattga tcatagacaa actcagaact agcagtgtgc agtcgatcc 240
ggggccaaaa tccctccgag cacacggtga tccctcgagt ggtttcgcga gtatcggtg 300
accatgaaga ggcgtcagtc ctctctcttc tccacgcagg tttcaacagg agatttatgg 360
agaatagcag cataattgct tgctataatg aactgattca aatagaacat ggggaagttc 420

```


WO 00/77040

PCT/US00/16636

```

gctcccagtt  caaattacgg  gcctgtaatt  cagtgtttac  agcattagat  cactgtcatg  480
aagccataga  aataacaagc  gatgaccacg  tgattcagta  tgtcaacca  gccttcgaaa  540
ggatgatggg  ctaccacaaa  ggtgagctcc  tgggaaaaa  actcgcgtg  ctgccccaaa  600
gcgataagaa  ccgggcagac  cttctcgaca  atcccgggg  atgcatcaag  aagggaagg  660
agtggcaggg  ggtttactat  gccagacgga  aatccgggg  cagcatccaa  cagcacgtga  720
agatcacccc  agtgattggc  caaggaggga  aaattaggca  ttttgtctcg  ctcaagaaac  780
tgtgtgttac  cactgacaat  aataagcaga  ttcacaagat  tcatcgtgat  tcaggagaca  840
attctcagac  agagcctcat  tcattcagat  ataagaacag  gaggaagag  tccattgacg  900
tgaaatcgat  atcatctcga  ggcagtgatg  caccaagcct  gcagaatcgt  cgctatccgt  960
ccatggcgag  gatccactcc  atgaccatcg  aggctcccat  cacaaagggt  ataaatataa  1020
tcaatgcagc  ccaagaaaac  agcccagtc  cagtagcgga  agccttggac  agagttctag  1080
agattttacg  gaccacagaa  ctgtactccc  ctgagctggg  taccaaagat  gaagatcccc  1140
acaccagtg  tctgtttgga  ggcctgatga  ctgacggctt  gagaagactg  tcaggaaacg  1200
agtatgtgtt  tactaagaat  gtgcaccaga  gtcacagtc  ccttgcaatg  ccaataacca  1260
tcaatgatgt  tcccccttgt  atctctcaat  tacttgataa  tgaggagagt  tgggacttca  1320
acatctttga  attggaagcc  attacgcata  aaaggccatt  ggtttatctg  ggcttaaagg  1380
tcttctctcg  gtttgagta  tgtgagtttt  taaactgttc  tgaaaccact  cttcgggcct  1440
ggttccaagt  gatcgaagcc  aactaccact  cttccaatgc  ctaccacaac  tccaccatg  1500
ctgccgacgt  cctgcacgcc  accgctttct  ttcttgga  ggaaagagta  aagggaagcc  1560
tcgatcagtt  ggatgaggtg  gcagccctca  ttgctgccac  agtccatgac  gtggatcacc  1620
cgggaaggac  caactctttc  ctctgcaatg  caggcagtg  gcttgctgtg  ctctacaatg  1680
acactgctgt  tctggagagt  caccacaccg  cctcggcctt  ccagctcacg  gtaaggaca  1740
ccaaatgcaa  cattttcaag  aatattgaca  ggaaccatta  tcgaacgctg  cgccaggcta  1800
ttattgacat  ggttttggca  acagagatga  caaaacactt  tgaacatgtg  aataagtttg  1860
tgaacagcat  caacaagcca  atggcagctg  agattgaagg  cagcgactgt  gaatgcaacc  1920
ctgctgggaa  gaacttccct  gaaaaccaa  tcttgatcaa  acgcatgatg  attaatgtgt  1980
ctgacgtggc  caaccctatg  cgcccttgg  acctgtgcat  tgaatgggct  gggaggatct  2040
ctgaggagta  ttttgacag  actgatgaag  agaagagaca  gggactacct  gtgggtgatg  2100
cagtgtttga  ccggaatacc  tgtagcatcc  ccaagtctca  gatctctttc  attgactact  2160
tcataacaga  catgtttgat  gcttgggatg  cctttgcaca  tctgccagcc  ctgatgcaac  2220
atctggctga  caactacaaa  cactggaaga  cactagatga  cctaaagtgc  aaaagtttga  2280
ggcttccatc  tgacagctaa  agccaagcca  cagagggggc  ctcttgaccg  acaaaggaca  2340
ctgtgaatca  cagtagcgta  aacaagaggc  cttcctttct  aatgacaatg  acaggtattg  2400
gtgaaggagc  taatgtttaa  tatttgacct  tgaatcattc  aagtcccaa  atttcattct  2460
tagaaagtta  tgttccatga  agaaaaatat  atgttctttt  gaatacttaa  tgacagaaca  2520
aatacttggc  aaactccttt  gctctgtgt  catcctgtgt  acccttgta  atccatggag  2580
ctggttcact  gtaactagca  ggccacagga  agcaaagcct  tgggtgcctg  gagctcatct  2640
cccaggatgg  tgactaagta  gcttagctag  tgatcagctc  atcctttacc  ataaaagtca  2700
tcattgctgt  ttagcttgac  tgttttctc  aagaacatcg  atctgaagga  ttcataagga  2760
gcttatctga  acagatttat  ctaagaaaaa  aaaaaaaaga  cataaaataa  gcgaaacaac  2820
taggaccaa  ttacagataa  actagttagc  ttcacagcct  ctatggctac  atggttcttc  2880
tggccgatgg  tatgacacct  aagttagaac  acagccttgg  ctgggtgggtg  ccctctctag  2940
actggtatca  gcagcctgtg  taaccctttt  cctgtaaaaag  gggttcatct  taacaaagtc  3000
atccatgatg  agggaaaaag  tggcatttca  tttttgggga  atccatgagc  ttcttttatt  3060
tctggctcac  agggcagcc  acgaggcact  acaccaagta  ttatataaaa  gccattaaat  3120
ttgaatgcc  ttggacaagc  ttttcttaaa  aaaaaaaaaa  aa  3162

```

<210> 96

<211> 2740

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2376728CB1

<400> 96

```

cggaccttcg  ccttcgctgt  cgccgcgcgc  gccgcccgcg  gacgtcgggg  ctattagtga  60
aagatgggtg  atcgcttggc  aaacagtga  gcaataacta  gacgtataag  tatagtggaa  120
aactgttttg  gagcagctgg  tcaaccttta  actatacctg  gacgagttct  tattggagaa  180
ggagtattga  ctaagtgtgt  caggaaaaag  cccaaagcaa  ggcagttttt  cttgtttaat  240
gatattcttg  tatatggcaa  tattgtcatc  cagaagaaaa  aataaaciaa  acaacatatt  300
attccccctg  aaaaatgtcac  tattgatctc  atcaaagatg  agggagactt  aagggaatgga  360
tggctaatac  agacaccaac  taaatctttt  gcagtttatg  ctgccactgc  tacggagaaa  420
tcagaatgga  tgaatcatat  aaataaatgt  gttactgatt  tactctccaa  aagtggggaag  480
acaccagta  atgaacatgc  tgctgtctgg  gttcctgact  ctgaggcaac  tgtatgtatg  540
cgttgtcaga  aagcaaaaat  cacacctgtt  aatcgtcgcc  accattgccg  caaatgtggt  600

```


WO 00/77040

PCT/US00/16636

```

tttgttgtct gtggggccctg ctctgaaaag agattttctt tccccagcca gtctcttaag 660
cctgtgcgga tttgtgactt ctgctatgac ctgctttctg ctggggacat ggccacatgc 720
cagcctgcta gatcagactc ttacagccag tcattgaagt ctcctttaaa tgatatgtct 780
gatgatgatg acgatgatga tagcagtgc taaggacaca tttgggagta tttaatcagg 840
tgtggctatc tgagaaatca actttggggg aaatgtaaga ttctgagctc tctctctgtt 900
ttgttctagc catgaatttg cctgagaaac ttgtaaccta tgtgcctcaa tatattccat 960
agaaagtagg tccccctgcc ttctcccact cctcacactc ttctacaggg ataggctttt 1020
gcaaataata cagataaatt tttgtttct tgtttattt taggttattt tcttgaagg 1080
ttgggaaaaa atgtttgttt taacaggtca tgtactacgt tgttgtttt atttctgtta 1140
taagtaaaac taaaagcaca gaatgggtgg aaaggggcta taatgtgggt cattaataat 1200
gttagcagct tttttctaac catcctgtct aatgggttaag acaccagtaa caaaaacaca 1260
tgatttggaa atactttggc tttttcatat acctagtggg gccttatcat aatagcactg 1320
ttacatgaaa taagccctca ccttcttact ttctgtttg ttagaaaaat acactgtg 1380
tctttgaagt gataaaatga gtgtttatga atgggtgtaa ttaggaaata cttctctact 1440
gacagctaca aataactaag tttggaggta ttttctctc atatgaataa atatttttcc 1500
ataaaatagt tgtgattata tttttgtttt atataggtcc caaattataa ttgtcaaata 1560
tatattttta attaataaaa gttgtcattc ttaggaattt ggtttgaaat ttatcagtta 1620
tacagaattg tcatactgca ttagcttcta cctttagtaa gacataattt ttaggtataa 1680
attcttatgc tttaacatta tttctggatt gaaaatctta taaaaccctt gaaaataaac 1740
agtctctttt ttacaaagcc tgtgttagag cacagattta cctaggcttg aagatttgga 1800
agaaataata tgaagaatg gcctcaaggc agaccacttt aagtttggct agacttcata 1860
tcgtggaagt attgtctatt tcagtgtgaa actatcttga atttgcaaat atagtgttat 1920
attttataaa gttttgtaaa atcccaaaca atatttctat ttttgtaaaa caattgtatg 1980
tataatctgt atttgaaatc attttgcaat ctatggaaat agagtagcaa ttgctatttc 2040
taaattgtga actttaagtc aatctagatt tattttgaga agtaattgtt cactctttac 2100
ttttgaggca gccattaggt tgaaagtata tatttatcat ataaaacttg atgcgttttg 2160
cactactctt tccatttata tgctgcaaac aactacagtc tttgaaatat ggaaaatcag 2220
cagctctaaag ttgtttttaa attctaaatt taaaaaatct tcaaacttga atataccgca 2280
aatgtcatga gaagtttgat tcagtaactt gtgatggagg attcttttgt atcttactgt 2340
ttggttaagg cactaatttt acttacctat tagattttga aagtatctga gatatacaaa 2400
tctccctgta ggaaatgtga aagaaaagca caacaaaact aggggttttt gttcatttgc 2460
ttgtctttat gattttttt gggttttgtt aatatcaggt ggatttttgt tcttaagcaa 2520
tatatacata aaatcaacca acatatctga aaaggatcat gaaacctgag aaatgcta 2580
ggagatttgc tggtagatag gaatctagca aattcaggaa ccaaggggaa atgttgtgag 2640
ataacattta cattgtcaac ctttattgac tttgttttta caataaaaaa tattttacaa 2700
cttaaaacgc aaaacgcagt tagaaaagtc tagaaaaaaa 2740

```

<210> 97

<211> 1079

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2790762CB1

<400> 97

```

ccggcatgaa gacagactcg cttagtcgcc agtcacttaa gctgagtgca ttgtgatttc 60
caataattga ggcagtggtt ctaaaagctg tctacattaa tgaaaagagc aatgtggcca 120
gcttgactaa gccgccagcg cacagcgcg caggacgcgc ccgggtctca gccgacttgt 180
gcatgttagc tgtgtagatt tatgtgaggg cttgtaaaac tctggtcttg taaactagtc 240
ttaagcgctt ttaatatgga gacagatgag agcccctctc cgctcccgtg tgggcccgca 300
ggagaagcgg tgatggagag ccgagctcgc cccttccaag cgctgccccg tgagcagctc 360
ccaccacctc ccctgcaaac gtccagtggg gcagaggtaa tggacgttgg ctctgggtgg 420
gatggacagt ccgaactccc tgctgaggac cccttcaact tctacggagc ttctcttctc 480
tccaaaggat ccttctctaa gggccgcctc ctcatagacc cgaactgtag tggccacagc 540
ccgcgcaccg cccggcacgc acctgcggtc cggaagttct gagagctgca gccctgacct taagttgctt 600
aaggatgtaa agattagcgt gagctttacc gagagctgca ggagtaagga caggaagggtg 660
ctgtacacag gagcagagcg cgacgtgcgg gcggagtgcg gtctgtctct tagccctgtc 720
agtggggacg tgcattgctt tccctttggc gggagtgttg gtgacggggg aggcattgtg 780
ggtagagatg cgtataagaa ggatgagctg aatgagctgg atcaggaaaa gagagtggag 840
tatgcagtgc tcgatgagtt agaagatttt actgacaatt tggagctaga tgaagaagga 900
gcaggcgggt tcacggctaa agcaatcgtt cagagagaca gagtggatga agaggccttg 960
aatttccctt acgaggtatg ttggcagccc ctctcttaga gggctcttag caaaacccaa 1020
agagagattt ggggaattgca gcatcttttg aaagcaggga aattaaaaaa aaaaaaaa 1079

```

<210> 98

WO 00/77040

PCT/US00/16636

<211> 1393
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2869164CB1

<400> 98
 ctccggccggc gctgacgcag ccatggcgga ggccggctttg gaagccgtgc ggagcgagtt 60
 acgagaattc ccggccgctg caagggagct ctgcgtgcct cttgctgtgc cctacctgga 120
 caaaccoccca actccgctcc acttctaccg ggactgggtc tgccccaaca ggccgtgcat 180
 tatccgcaac gctctgcagc actggccggc cctccagaag tggteccctc cctatttcag 240
 agccacagtg ggctccacag aggtgagtgt ggccgtgacc ccagatggtt acgcggatgc 300
 cgtgagaggg gatcgcttca tgatgccagc tgagcgccgc ctgcccctga gcttcgtgct 360
 ggatgtgctg gagggccggg cccagcaccc tggagtcttc tatgtgcaga agcagtgtct 420
 caacctgccc agcgagctgc cccagctgct gcctgatctg gaatcccatg tgccctgggc 480
 ctccgaggcc ctgggaaaga tgcccgatgc tgtgaacttc tggctggggg aggcgggtgc 540
 agtgacttct ttgcacaagg accactatga gaacctctac tgcgtggtct caggagagaa 600
 gcatttcctg ttccatccgc ccagcgaccg gcccttcac ccctatgagc tgtacacgcc 660
 ggcaacctac cagctaactg aagagggcac ctttaagggtg gtggatgaag aggccatgga 720
 gaaggtgccc tggatccac tggaccctt ggccgacag ctagcacggt accctagtta 780
 cagtcaggcc caggccctc gctgcacggt gcgggcccgt gagatgtctt atctgccggc 840
 tctgtgggtc caccacgtcc agcagtcoca gggctgcac gcagtgatgt tctggtatga 900
 catggaatac gacctcaagt atagtactt ccagctgtct gactccctca ccaaggcttc 960
 aggccttgac tgatggagca ctggtgaaca cgaccaagca cgccctgggg gacggagcca 1020
 gcccctccct ggccagggtc attctcgaga gagcctggag tgtgcatgct ggctgctggc 1080
 cccgggtcca gcatggcttg agatcagctt tggaggatct tggaatgtgg tcataaggac 1140
 tcaaggtgcc aggcaggctt ggggtgagggt tctcaggaag ttgccacaca ggtgagcaga 1200
 gtggggatca ggtgcagcgg caccctctcc cagcgctgtg atgttgggag agtcactgag 1260
 tctcgggcat tgggtgctct tcagtaaaaga gataataatg gctgtacctc gcggggctgt 1320
 tgtgggcttg gagatgatgt ctatgaggac cagcatggag ctggcacaca ggacatgttg 1380
 aataaaaggt agc 1393

<210> 99
 <211> 1580
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3317629CB1

<400> 99
 ggccctcccg ctttgtgcta cctgcggccc ggctctctct cgcgccccca ctgcgctgc 60
 gatgacgcgc tcaactgttca agggaaactt ttggagtgc gaacatctca gcaccatcg 120
 ctatgacaac attatccaac atctgaacaa ttggccgcaag aactgcaaag agtttgaaga 180
 ctttctaaaa gaaaggcgag caattgaaga gaggtatggc aaagatctgc tcaacctctc 240
 taggaagaag ccgtgtggac agtctgaaat caacaccctg aagcggggcc ttgaagtctt 300
 caagcagcaa gtagacaatg tggcacaatg tcacattcag cttgcacaga gtttaagaga 360
 agaggccagg aagatggaag aattcaggga aaagcaaaaa ctacaacgaa aaaagacaga 420
 gctcataatg gatgctatcc ataaacaaaa gagcttacia ttcaagaaaa ccatggatgc 480
 aaagaagaac tatgagcaga aatgccggga caaagatgag gcagaacagg ccgtcagccg 540
 gagtgcacaac ctggtgaacc cgaagcaaca agaaaagctt tttgtgaaac tggcaacttc 600
 aaagaccgca gtagaggact cagacaaagc ataatgtctg cacatcgcca ccctggataa 660
 ggtccgagaa gagtggcaga gtgagcacat caaggcctgc gaggcatttg aggtcaaga 720
 atgtgaacga ataaacttct tccggaatgc attgtggtta catgtgaatc agctgtcaca 780
 acaatgtgtc accagtgtat aaatgtacga acaagtcgga aagagttag aaatgtgcag 840
 cattcagagg gacattgaat actttgtgaa tcaacgcaa actggacaga ttccaccagc 900
 acccatcatg tatgagaatt tctactctc ccagaagaat gcagtcaccg caggaaaggc 960
 tacaggccct aacttggcaa ggagaggacc cctcccaatt cctaaaagct caccagatga 1020
 tccaattac tctttggttg atgactacag tttgtcttat cagtaaaatc aatgaaacca 1080
 gagctttttc cggctagtgc ttctgtgata tggaaagggc acccagagca gcaggaccta 1140
 tagccacgtt atgtcagcaa tgaagacttt gaagtgaacc cttgtataa ttttttagag 1200
 atttaaaatt tatggtagac atttaggaca acataagcaa gtagagtctt gcagtttttt 1260
 gaagtttaca aattgcccc tctgaagaa ttattcttcc ccagttactc aggttatgaa 1320
 tgaattaggt tttcaacatg ggaagcatga aatccacttc tggatttggg gcatccactt 1380

WO 00/77040

PCT/US00/16636

```

gaggagcaga ggtggcagca gaggattctg agccaccaac tgcagtagtg gctcctttgg 1440
ctttgggcag cctggctgtg gagtttccac ggcgacacac agcctcagtg gtgcaagatt 1500
taaaattacc ttcttttttg gctggaagac ttagaagccg cctgatcata ctttctcatt 1560
ttacagatga ggaaataaac

```

<210> 100

<211> 840

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3870488CB1

<400> 100

```

gttaaaaata caaaaatcag ccagggtgtgg tgatggacac ctgtaatccc agctactcgg 60
gagcctgagg taggagaatc gcttgaaccc aggaggcgaa ggttgcagtg agccgagatt 120
gtgcattgca ctccagcctg ggtgacagag caagacttcg tctcaaaaca aaaacacaaa 180
aacaacaaaa aaacagctac cagggttaaag gctgagccgg cgggcccctgc cttgactcgg 240
agtcctgact gtccccagat gaagcgccct cagttcagca agccgccagg aggccaccac 300
aagacccagc gctcaggaag gagaaggatc cccagccaca gcagttgcc a ccatggacc 360
caaagttgtc gaagcagctg aggaaggcag agaaggccga gagggagttc cggaagaagt 420
tcaagtttga aggggagatc gtggttcaca cgaagatgat gatcgacccc aacgctaaga 480
cacgtcgcgg ggggtggcaag cacctcggga tccggcgcgg ggagatcctg gaggtgatcg 540
agttcaccag caatgaggag atgctgtgcc gggaccccaa aggcaaatat ggctacgtgc 600
ccagaacagc gtccttgccc ctggagacgg aggtgtacga tgatgtcgac ttctgcgac 660
ccctggaaaa ccaaccactc cccctgggag ggtaagaccg gtaggcgtgg ggccaggaca 720
gccagccagc ccagcgcccg ctcacccagg agcctgggat cccggcgcgg gaaagtcaca 780
gagctgcctg ggcttgtacc tggccacata aagccccagt ttaaagcaaa aaaaaaaaaa 840

```

<210> 101

<211> 1970

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3886318CB1

<400> 101

```

gacggaggcc tggcactcgg aagacaacgg atgggagccg tgtgcacgtc gggagctcgg 60
agtgagcgtg agttccgtgc ccaggcccgcc gactcgggtcc accaggacag cgctccgggt 120
cgacgggggtc ctggagccgc gctctgggag ggcgcacgga ggggtgaacgg cggcgtagg 180
acccggaggc gcgggcgggg tgggcggcgg ggctaggacc cagcggctcc ggcagagcgg 240
aagcggcgcc gggagcttcc gggagggcgg ctgcgaggca ccatgactcc tgtgaggatg 300
cagcactccc tggcaggtca gacctatgcc gtgcccctca tccagccaga cctgcggcga 360
gaggaggccg tccagcagat ggccggatgcc ctgcagtacc tgcagaaggt ctctggagac 420
atcttcagca ggtagagcag agccggagcc aggtgcaggc cattggagag aaggtctcct 480
tggcccaggc caagattgag aagatcaagg gcagcaagaa ggccatcaag gtgttctcca 540
gtgccaagta cctgctcca gagcgctgc aggaatatgg ctccatcttc acgggcgcc 600
aggaccctgg cctgcagaga cgccccgcc acaggatcca gagcaagcac cgccccctgg 660
acgagcgggc cctgcaggag aagctgaagg actttcctgt gtgcgtgagc accaagccgg 720
agcccagagg cgatgcagaa gagggacttg ggggtcttcc cagcaacatc agctctgtca 780
gctccttgct gctcttcaac accaccgaga acctgtacaa gaagtatgtc ttcttgacc 840
ccctggctgg tgctgtaaca aagaccatg tgatgctggg ggcagagaca gaggagaagc 900
tgtttgatgc ccccttgacc atcagcaaga gagagcagct ggaacagcag gtcccagaga 960
actacttcta tgtgccagac ctgggccagg tgccctgagat tgatgttcca tcctacctgc 1020
ctgacctgcc cggcattgcc aacgacctca tgtacattgc cgacctgggc cccggcattg 1080
ccccctctgc ccttggcacc attccagaac tgcccacctt ccacactgag gtagccgagc 1140
ctctcaaggc agacctacaa gatgggttac taacaccacc cccaccgcc ccaccaccac 1200
ccccagctcc tgagggtgctg gccagtgac cccactccc accctcaacc gcggccctg 1260
taggccaagg cgccaggcag gacgacagca gcagcagcg gtctccttca gtccaggag 1320
ctcccaggga agtggttgac ccctccggtg gccggggccac tctgctagag tccatccgcc 1380
aagctggggg catcggaag gccaaagctgc gcagcatgaa ggagcgaaag ctggagaaga 1440
agcagcagaa gaagcaggag caagtgaag ccacgagcca aggtgggcac ttgatgtcgg 1500
atctcttcaa caagctggct atgaggcgca agggcatctc tgggaaagga cctggggctg 1560
gtgagggggc cggaggagcc tttgcccgg tgctcagact catccctct ctgccgccac 1620

```

WO 00/77040

PCT/US00/16636

cgcagcagcc	acaggcagag	gaggacgagg	acgactggga	atcctagggg	gtccatgac	1680
accttcccc	ccagaccag	acttgggccc	ttgctctgac	atggacacag	ccaggacaag	1740
ctgctcagac	ctacttcctt	gggagggggg	gacggaacca	gcactgtgtg	gagaccagct	1800
tcaaggagcg	gaaggctggc	ttgaggccac	acagctgggg	cggggacttc	tgtctgctg	1860
tgctccatgg	ggggacggct	ccaccagcc	tgccactg	tggtctcttc	ttaagaggct	1920
tccagagaaa	acggcacacc	aatcaataaa	gaactgagca	gaaaaaaaaa		1970

<210> 102
 <211> 1258
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 4043934CB1

<400> 102

gaatttaata	cgatcactat	agggaatttg	gccctcgagg	ccaagaattc	ggcacgagga	60
tggggcaatg	cttgaggtat	cagatgcact	gggaggacct	ggaagagtag	caggccctga	120
ccttcctgac	cagaaatgaa	attctgtgca	tccatgacac	cttcctgaag	ctctgccctc	180
ctgggaagta	ctacaaggag	gcaacgctca	ccatggacca	ggtcagctcc	ctgccagctc	240
tgccgggtcaa	cccttttcaga	gaccgtatct	gcagagtgtt	ctcccacaaa	ggcatgttct	300
cccttgaggga	tgtgctgggc	atggcatctg	tggtcagcga	gcaggcctgc	ccaagcctga	360
agattgagta	tgccctttcgc	atctatgatt	ttaatgagaa	tggcttcatt	gatgaggagg	420
atctgcagag	gatcactcctg	cgactgctga	acagtgatga	catgtctgag	gacctcctga	480
tggacctcac	gaaccacgtc	ctgagttagt	cggatctgga	caatgacaac	atgctgtcct	540
tctcagagtt	tgaacatgca	atggccaagt	ctccagattt	catgtactcc	tttcggattc	600
gcttctgggg	atgctgatgt	agcggcaaat	acctgacatg	gcagcctcga	gggagaccac	660
aggaatcgaa	ccccctccag	cactggaggg	agctgggttg	aagtgtgact	ttgtactggg	720
cccacactca	cctctagaat	attgtttatt	agataaaaaga	aaaagctttt	ccttagccca	780
tcagatcatc	gcttttttaa	tgcaggggtca	tacatggtac	tttttattaa	gaactgccct	840
ttccagggtc	tcagtgtgcc	agcgtatgca	agcaggctgg	ggtggcaatc	tttctgaggg	900
aatagttcaa	atctcaaccc	atgtcatagc	agggggccaa	gccaaatggg	atgaagggtc	960
ctagcaagat	acatgtcctt	cctcccttc	atcaaaaacc	ccgaccccca	gcacctcaca	1020
gttcacagct	gcacagagac	gtgcacatag	cagccattcc	agccggtgcc	cggtcccca	1080
ctcccccttc	gagggagaag	gcattctggc	cctgattgtg	ggaccagcaa	ttagagttaa	1140
tttcttttgc	tattcagcca	agctctggaa	tgaatttggc	caccacagac	agcctttggg	1200
gtccagctcc	tcagggactt	tgagacacag	aagaagcccc	ccattgggtt	tttcttat	1258

<210> 103
 <211> 685
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 4371445CB1

<400> 103

tgagacctgt	ctaaatttgg	tttgtgcctt	aattgagtta	gtcattgaac	ttccaaaaat	60
gttgctgcct	gaagaggaat	ttcagtaacg	ttcttcattg	ttacaataat	tttcccagtt	120
tgtaaaaaca	gtctaaatat	tttctgaaaa	ttgaaaaact	tgaaaaacta	aaaaattacg	180
ttgctgtaaa	ctctgtgggc	ggtgtaaaaa	gtttagtgtg	ggaaaaaata	catcattatt	240
ttctttgtct	gacatagaag	actcagcctg	gatttcaaaa	ctgaacactg	aagtggtttg	300
caacagttac	ctggctcttg	gcctcaatcc	agctggatca	aactgagacc	tgaaaagaga	360
tattgactcc	tgtggcagtg	gaaagaccca	agaatgccag	tcaagaagac	agatactgac	420
cgagctttat	cattactgga	agaatactgc	aaaaaattaa	ggaaaccaga	ggagcagctg	480
ttgaaaaatg	cgtttaaaaa	ggtgatgggt	atctttaaga	gcagcttatt	ccaagctttg	540
ctaggtatgt	attatgaaag	ttattcatca	ttttaatggt	cagaattggg	cttgatagtt	600
tgaataatgt	ggtcaaagaa	cctgatgtta	accaagtttc	aaactgggat	aattttcttt	660
aatactggaa	gggaagattt	gtttt				685

<210> 104
 <211> 1886
 <212> DNA
 <213> Homo sapiens

WO 00/77040

PCT/US00/16636

<220>

<221> misc_feature

<223> Incyte ID No: 5527925CB1

<400> 104

```

tgctgcgctt cgcgaagat ggcggcggct gcgggtagct gcgcgcgggt ggcggcctgg 60
ggcggaaaac tgcgacgggg gctcgtctgc agccgacagg ctgtgcggag tcccggcccc 120
ttggcagcgg cagtggccgg cgcggccctg gcaggagcag gagcggcctg gcaccacagc 180
cgctcagtg ttgcggcgcg ggatggcagt ttacagctct ccgcacagaa aaatggtgaa 240
catggaataa tatatatagg gaaaccgtct ctctgtaagc agcgtctcat gcagttttct 300
tcactogaac atgaaggaga atattatatg acaccacgag acttcctctt ctcaagtgatg 360
tttgagcaaa tggaaacgtaa aacttcagtc aagaagctga caaaaaagga catcgaggat 420
acactgtcag ggatccaaac agctggctgt ggatcaactt ttttcagaga ccttggcgat 480
aaagggctaa ttcatatac cgagtatctt ttcttgctta caatcctcac taaaccccat 540
tctggatttc atgttgcttt taaaatgctg gatacagatg gtaatgagat gattgaaaaa 600
aggggaatttt ttaagctgca gaagatcata agtaaacaag atgacttgat gacagtgaag 660
actaatgaaa ctggatatca ggaagcaata gtgaaagaac ctgaaattaa cacaactctt 720
cagatgcgtt tctttggaaa aagaggacaa agaaaacttc attataaaga atttcgaaga 780
tttatggaaa atttacaac agagattcaa gaaatggaat tccttcagtt ttctaaaggt 840
ttgagtttca tgagaaaaga agactttgca gagtggctac tttttttcac taacactgaa 900
aataaagata ttatttggaa aaatgtgaga gagaagttgt cagcaggaga gagcattagt 960
ttggatgaat tcaagtcatt ttgccatttt acaaccactt tggaagactt tgctattgcc 1020
atgcagatgt tcagtttagc tcctcgtcct gtcagactag cggagtttaa gagagctgtg 1080
aaagtagcaa caggacaaga actctcaaac aatatttttg acactgtctt taagatcttt 1140
gatttggtat gtgatgaatg tcttagtcat gaagagtttc ttggggtgtt aaaaaacaga 1200
atgcacgcag gtttatgggt accacaacat cagagtatac aagaatactg gaagtgtgtg 1260
aagaaaagaaa gcattaaagg agtaaaagaa gtctggaaac aagctggaaa aggtcttttt 1320
taataaaaga tataatagta tggcaattat attgttccaa atgtcaaaat ttgtgatttt 1380
ttagaagtac ttgctatttt tcttcttaag tcttcattga tattctgtgt gaaataagca 1440
tgtcttgtac ttgctttctg attcataatt ttatgaaaga acttagtaga aagaaaagta 1500
agtataaaaa tagatattgg attctgtcag aaggcctaga tttgaaataa tgttttgtac 1560
ttcggttaaga tggaaaactt agtgattcac tgatttctta gacactctaa tatgatatgc 1620
tttctggaag gataaaacaa atacatatgg gaaaaagtac ttgagaccaa ggccagcatc 1680
aattccagac atcttcatgt tcttaatagg ctaaataag ttaaaaactt atttcagatt 1740
tttctcatct gtaccttata tctcataaat ttattgcata ttttatgtca gtagcttagc 1800
tgtttattgt ctttaaaata acatgtaaac ttcaatgttc tatctggaag cagaataaaa 1860
tatttacata gatcaaaaa aaaaaa 1886

```